Binding	Table of contents group 5 Binding agents / sealing and coatings systems capable of vapour diffusion				
Page 2 - 3	2 K PLASTISTONE® EP-DF binding agent WE  - modified epoxy resin/hardener system capable of vapour diffusion without fillers a. pigments  - for producing primers, impregnations and early protection against evaporation  - for producing coloured sealings and self-levelling coatings				
Page 4 - 5	3 K PLASTISTONE® EP-DF fine spatula WE - as levelling adjustment capable of vapour diffusion in thin layers (levelling compound)				
Page 6 - 7	3 K PLASTISTONE® EP-DF mortar WE - as repair and surface mortar capable of vapour diffusion , also for coves, in thicker layers				
Page 8 - 9	4 K PLASTISTONE® EP-DF sealing, coloured WE Water-emulsified, capable of vapour diffusion, satin-finished, non-slip - sealing capable of vapour diffusion with fillers and pigments - as sealing for substrate with high residual moisture				
Page 10 - 11	4 K PLASTISTONE® EP-DF self-levelling coating WE 1.0 – 1.5 mm, coloured  - as coating capable of vapour diffusion with fillers and pigments - for layers starting from 1.0 mm and for inside (and outside sections in combination with colour chips) - as basic industrial floor coating on even substrate				
Page 12 - 13	4 K PLASTISTONE® EP-DF self-levelling coating WE 1.5 – 2.0 mm, coloured  - as coating capable of vapour diffusion with fillers and pigments - for layers from 1.5 mm and for inside (and outside sections in combination with colour chips)				
Page 14 - 15	4 K PLASTISTONE® EP-DF self-levelling coating WE 2.5 – 3.0 mm, coloured  - as coating capable of vapour diffusion with fillers and pigments - for layers from 2.5 mm and for inside (and outside sections in combination with colour chips)				
Page 16 - 17	4 K PLASTISTONE® EP-DF self-levelling coating WE conductive, coloured  - as coating capable of vapour diffusion with fillers and pigments, for layers from 1.5 mm to 2.0 mm  - as basic industrial floor coating in interior sections on even substrate				
Page 18 - 19	2 K PLASTISTONE® EP-conductive lacquer WE - installed conductive below the EP-DF self-levelling coating as electrostatically highly conductive intermediate layer.				
Page 20	Conductive coating: calculating copper strip requirement				



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2	2 K	PLASTISTONE® EP-DF binding agent WE
Application areas:	<b>&gt; &gt; &gt; &gt; &gt; &gt; &gt; &gt; &gt; &gt;</b>	On concrete, screed and magnesite/anhydrite floors etc. with high residual moisture. For all subsoil that cannot be coated with conventional systems due to their equilibrium moisture content and respectively extruding dampness, As primer coat (+20% water as primer for EP-DF flow coatings) As early evaporation protection for concrete and screed floors. (+20% water) As EP-DF fine filler or EP-DF mortar with appropriate filler addition As primer for EP-DF fine filler and also EP-DF mortar As adhesive agent for coloured EP-DF sealings and 1-3 mm EP-DF flow coatings. Pay attention to the general advice in catalogue group 1!
Properties:	→ → → → → → →	Very high penetrating power due to low viscosity, thus ideal for dense surfaces, such as magnesite or vacuum concrete floors.  Tools can be cleaned with water after usage.  Long processing time of 1 to 1.5 hours depending on the bundle estimate.  Drying time at 20°C approx. 16 hours, afterwards recoatable.  On application as early evaporation protection, the EP-DF adhesive agent WE will immediately be applied by using a paint roller when the concrete or screed floor is accessible.  Not to be used as colourless sealing on coloured coatings  During application and drying, mind the fact that the air moisture in enclosed rooms raises due to the evaporation of the EP-DF adhesive agent's water contents. Thus ensure sufficient ventilation.
GISCODE:	<b>→</b>	RE 1 (epoxy resin products, solvent-free)
CE Norm:	<b>→</b>	As per DIN EN13813: CE-label: EN 13813 SR-B3,8
Resistance:	<b>→</b>	See catalogue gr.1 chemical resistance of coating surfaces
Subsurface preparation:	<b>→</b>	See catalogue group 1 General requirements to subsurface
Safety data sheets:	<b>→</b>	On our homepage, domain Shop Articles
Processing:	<ul><li>→</li><li>→</li><li>→</li><li>→</li></ul>	As primer / primer coat:  Completely discharge component B into component A, and then mix with a suitable agitator for approx. 2 - 3 minutes, repot and then mix again for approx. 1 minute.  As primer, add 20 % water to the A+B mixture and intermix thoroughly once more.  Attention! Only add supplementary water to the premixed A+B component.  It is generally recommended to cast the mixed material on the surface by using a rubber squeegee and to roll with a paint roller after approx. 15 minutes. Avoid ponding on the surface area. Nevertheless there should be a closed surface film. If you continue with a coating, the fresh priming should be broadcast with quartz sand approx. 100g /m², size 0.1-0.4 mm or 0.3 – 0.9 mm.  Attention! A manual blending of components A and B is not possible as it would not result in sufficient curing.
Material consumption	<b>→</b>	On priming subsoil (concrete, screed) approx. 300 - 500 g/m² with rubber squeegee On dense/close subsoil approx. 150 - 200 g/m² with paint roller

## 2 K PLASTISTONE® EP-DF binding agent WE

The following technical values have been achieved with adhesive agent comp. A+B. Mechanical values change when filler materials are added. Refer to the values on the following pages, depending on the sealing or the EP-DF flow coatings 1-1.5mm/1.5-2mm/2.5-3mm.

Plasti-Chemie International GmbH does not assume any liability on the application of third-party products as technical characteristics may considerably deviate.

Product data:		Component A: Component B:		
Viscosity at 23 °C:		~ 180 mPas	~ 1150 mPas	
Solids content:			~ 54 %	
Mix ratio PBW:		250 PBW	100 PBW	
Mix ratio PBV:		250 PBV	89.3 PBV	
Mixing time:		2-3 min. according to bundle	size, repot and mix again for ~ 1 min.	
Density (mix):			1.10 kg / l	
Pot life at 20°C:		~ 60 min.	/ 300 g preparation	
Curing time at 20°C:		Curing times are being influenced by air moisture and temperature.  - accessible and coatable after ~ 16 h, chargeable after ~ 48 h  - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days  Curing times double with a high air moisture ( > 70%). Ensure sufficient ventilation immediately after processing.  After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible.  (sanded subsurface are an exception)		
Shelf life:			C to 25°C storage temperature, ns, comp. A must be stirred up	
Colour:			yellowish	
Cleaner for tools:		Water (if no curing has taken place)		
Steam-diffusion curre	ent density:	Test report no. 4376	of Polymer Institute Flörsheim	
Testing method as per Classification as per Diffusion equivalent ai	DIN EN 7783-1: DIN EN 1504-2: r layer thickness m:	Rating class II class $I = <5s_d(m)$ , class $II = >5-50s_d(m)$ , class $III = >50s_d(m)$		
Mechanical propertie	•		28 of Polymer Institute Flörsheim	
Shore D hardness DIN		-	69 Shore D	
Adhesive tensile streng			100% crack in concrete	
Bending tensile strengt				
Compressive strength l		Compression stress, 10% strain ~ 21.7 N/mm² sample <b>not</b> destroyed Compression stress, 20% strain ~ 24.0 N/mm² sample <b>not</b> destroyed		
	Available bund	le sizes 2 K EP-DF bindi	ng agent WE	
Artno:	Content:	Bundle composition:		
05 11 01 0000-X01	2.5 kg	Comp.A: 1.78 kg; Comp.B: 0.7	2 kg in 2 K bundle	
05 11 01 0000-X02	5.0 kg			
05 11 01 0000-X03	12.0 kg			
05 11 01 0000-X04	24.0 kg	Comp.A: 17.14 kg; Comp.B: 6.86 kg		
05 11 01 0000-X05	154.0 kg	Comp.A: 2*55 kg in 60 litre small barrel Comp.B: 1*44 kg in 60 litre small barrel		
05 11 01 0000-X06	577.0 kg	Comp.A: 2*206 kg in 210 litre barrel Comp.B: 1*165 kg in 210 litre barrel		
05 11 01 0000-X07	2800.0 kg Comp.A: 2 x 1000 kg in 1000 litre single-use IBC Container Comp.B: 1 x 800 kg in 1000 litre single-use IBC Container			

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Technical data s	sneet da	110 2019		
	3 K	PLASTISTONE® EP-DF fine spatula WE		
Application areas:	→ → → → → →	As synthetically modified balancing fine putty from layer thicknesses of 0.5 to 5 mm, used in storage rooms, production halls, basement garages, etc. on concrete, screed and magnesite / anhydrite floors.  Also on tiles with adequate substrate treatment and primer.  Chargeable with vehicles like cars, forklifts or forklift trucks.  For troweling off fine unevennesses or disruptions  Or as pore closure on EP-mortar or EP-DF mortar.  For substrate that cannot be coated with traditional systems due to household or oppressive humidity.  Note! For quick repair (~ 30 min.) of small holes, disruptions, especially in vertical areas like steps or plinths, we recommend using the 2 comp polyester- spatula.  Please mind the general advice in catalogue group 1!		
Properties:	→ →→→→→→ → → →	EP-DF fine spatula is a dispersion that can be diluted with water, based on 2K-epoxy resin.  Formulation free of benzyl alcohol and nonyle phenol Free of cement or gypsum contents (no shrinkage cracks) Very little odour Visible end of processing time Curing also on low temperatures from 10°C (object temperature) Cleaning of tools with water is possible (if no curing has taken place) EP-DF fine spatula does not contain solvents (despite water) Coating is breathable and can thus be used on substrate with increased household or oppressive humidity. Also on magnesite floors Fillers are only added on processing, thus no deposition due to storage For substrate that cannot be coated with traditional systems due to household or oppressive humidity.  During processing and curing in closed rooms, mind that air moisture may increase due to the evaporation of water proportions of the EP-DF fine spatula. Thus ensure sufficient ventilation.  Due to the evaporation of water proportions, the coating material shrinks. Thus a second		
Resistance:	<b>→</b>	spattling may be necessary after curing when spattling cracks or evening bumps.  See catalogue group 1 chemical resistance of coating surfaces		
Subsurface preparation:	→ → →	See catalogue group 1 General requirements to subsurface As primer coat, use the EP-DF binding agent, after curing the EP-DF fine spatula may be applied. When used on the EP-mortar, this one does not need priming.		
Processing:	<ul><li>→</li><li>→</li><li>→</li></ul>	Completely discharge hardener component (B) into resin component (A) and mix with a suitable agitator for ~ 2 minutes. Then put the binding agent mix into a larger pail and slowly add the filler with the agitator running, mix ~ 1 minute; the filler quantity depends on the required texture of the EP-DF fine spatula.  As the fluidity of the EP-DF fine spatula depends on temperature, the binding agent may be filled higher on higher temperatures and lower on lower temperatures.  With the EP-DF fine spatula, we recommend dispersing the mixed material immediately on the surface for elongating processing time. This way it stays longer workable.		
Material consumption	<b>→</b>	~ 1.8 kg/m² per 1 mm layer thickness (theoretical consumption) Practical consumption determines surface roughness. If a milled substrate shall be filled with a milling groove depth of 2mm, material consumption is not 3.60 kg/m² but only ~ 50% - thus ~ 1.80kg/m². The reason is that only the grooves need to be filled.		

## 3 K PLASTISTONE® EP-DF fine spatula WE

We especially point out that the following technical values can only be achieved with components like binding agent / fillers / pigments. Plasti-Chemie International GmbH is not liable for the application of external products as technical properties may strongly deviate then.

Product data of EP-DF fine spatula WE:	Component A:	Component B:	
Viscosity at 23 °C:	~ 180 mPas ~ 1150 mPas		
Solids content:	~ 85 % with	all fillers and pigments	
Mix ratio PBW:	2.5 PBW	1 PBW	
Filler portion on comp.A+B:	200 % fi	llers on comp.A+B	
Mixing time:		2-3 min.	
Material consumption:	~ 1.8 kg/m² pc	er 1 mm layer thickness	
Density (mix):		1.8 kg / l	
Pot life at 20°C:	Attention! Larger preparation	./ 300 g preparation as or higher temperatures shorten pot life occssing time)	
Curing time at 20°C:	Curing times are influenced by air moisture and temperature accessible and coatable after ~ 16 h, chargeable after ~ 48 h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days Curing times double with a high air moisture ( > 70%). Ensure sufficient ventilation immediately after processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)		
Shelf life:	~ 12 months at 15°C to 25°C storage temperature		
Colour:	grey		
Cleaner for tools:	Water (if no curing has taken place)		
GISCODE:		sin products, solvent-free)	
CE Norm as per DIN EN13813:		EN 13813 SR-B3,1	
Steam-diffusion current density:	Test report no. 4376	of Polymer Institute Flörsheim	
Testing method as per DIN EN 7783-1: Classification as per DIN EN 1504-2: Diffusion equivalent air layer thickness m:	Rating class II		
Mechanical properties:	class I = $<5s_d(m)$ , class II = $>5-50s_d(m)$ , class III = $>50s_d(m)$ Test report no. P 3835-29 of Polymer Institute Flörsheim		
Shore D hardness DIN 53505:	~ 77 Shore D		
Adhesive tensile strength DIN EN 1542:	~ 3.1 N/mm² 100% crack in concrete		
Bending tensile strength DIN EN ISO 178:			
Compressive strength DIN EN ISO 604:	Compression stress, 10% strain ~ 42.2 N/mm² sample <b>not</b> destroyed		
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#### Available bundle sizes 3 K EP-DF fine spatula

Artno:	Content:	Bundle composition:			
	Comp.A+B+C	Comp.A (resin)	Comp.B (hardener)	Comp.C (filler)	
05 03 01 0000-X08	7.50 kg	1.78 kg	0.72 kg	5.00 kg	
05 03 01 0000-X09	15.00 kg	3.57 kg	1.43 kg	10.00 kg	
05 03 01 0000-X10	37.00 kg	8.57 kg	3.43 kg	25.00 kg	

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Technical data sh	
	3 K PLASTISTONE® EP-DF mortar WE
Application areas:	<ul> <li>→ As synthetically modified levelling mortar for layer thicknesses from 5 to 50 mm in one process step, used in storage rooms, production halls, basement garages, etc. on concrete, screed and magnesite / anhydrite floors and screed surfaces.</li> <li>→ For substrate that cannot be coated with traditional systems due to household or oppressive humidity.</li> <li>→ Also on tiles with adequate substrate treatment. Chargeable with vehicles like cars, forklifts or forklift trucks.</li> <li>→ For troweling off coarse unevennesses or disruptions</li> <li>→ For subsequent installation of a floor down-grade</li> <li>→ For producing cove plinths</li> <li>→ As full-surface floor adjustement</li> <li>→ Please mind the general advice in catalogue group 1!</li> </ul>
Properties:	<ul> <li>EP-DF mortar WE is a dispersion that can be diluted with water, based on 2K-epoxy resin with mineral aggregates.</li> <li>Formulation free of benzyl alcohol and nonyle phenol</li> <li>EP-DF mortar does not contain solvents (despite water), thus very little odour.</li> <li>Free of cement or gypsum contents (no shrinkage cracks)</li> <li>Visible end of processing time</li> <li>Due to the selected grain size of 5 different quartz sand sizes in combination with the 2 K</li> <li>EP-DF binding agent WE, there is a blend of ideal grading and hardening properties.</li> <li>EP-DF mortar hardens at 20 °C within ~ 12 h and is then grindable and coatable, as well as processible from a substrate temperature of 10 °C</li> <li>Cleaning of tools with water is possible (if no curing has taken place)</li> <li>EP-DF mortar is breathable and can thus be used on substrate with increased household or oppressive humidity. Also on magnesite floors!</li> <li>Fillers are only added on processing, thus no deposition due to storage.</li> <li>During processing and curing in closed rooms, mind that air moisture may increase due to the evaporation of water proportions of the EP-DF mortar. Thus ensure sufficient ventilation.</li> <li>With a high concentrated load, we recommend increasing the mix ratio of the binding agent portion to 1 PBW binding agent and 8 PBW quartz!</li> <li>A levelling compound on the cured mortar is recommended in order to increase surface strength.</li> </ul>
Subsurface preparation:	<ul> <li>See catalogue group 1 General requirements to subsurface</li> <li>For a primer coat or bonding course, use EP-DF binding agent WE as primer. Process the EP-DF mortar WE wet-in-wet together with the primer. (This improves the adhesion of the EP-DF mortar WE)</li> <li>If the primer (EP-DF binding agent WE) lies longer than 48 h before re-processing, slightly sand it with quartz sand 0.7-1.2mm when it is still wet.</li> <li>Sanding the primer has the advantage that the EP-DF mortar WE does not slip during planing.</li> </ul>
Processing:	Completely discharge hardener component (B) into resin component (A) and mix with a suitable agitator for ~ 2 minutes. Put the mortar filler into a suitable mixing pail and add the resin / hardener mix (A+B). Mix with a compulsory mixer for about 2 – 3 minutes. Change into another pail and mix again ~ 1 minute.
Subsequent layers:	In practice it has proven that intermediate grinding after mortar curing with following pore closure or levelling compound has advantageous effects. Unevennesses are being removed and the mortar's absorptivity is being blocked which also ensures the self-levelling property of the subsequent EP-DF coating.

### 3 K PLASTISTONE® EP-DF mortar WE

We especially point out that the following technical values can only be achieved with components like binding agent / fillers / pigments. Plasti-Chemie International GmbH is not liable for the application of external products as technical properties may strongly deviate then.

Product data EP-DF mortar WE:	Component A:	Component B:	
Binding agent viscosity at 23 °C:	~ 180 mPas	~ 1150 mPas	
Solids content:	97	% with fillers	
Mix ratio PBW:	250 PBW	100 PBW	
Mix ratio: Binding agent with quartz sand:	1 PBW binding agen	t with 10 PBW quartz sand mix	
Mixing time:	1-2 min. comp.A+B / 2-3	min. binding agent with quartz sand	
Material consumption:		m <sup>2</sup> per 1 mm layer, tre or 22 kg /m <sup>2</sup> for 10 mm	
Density (mix):		2.20 kg / 1	
Pot life at 20°C:	Attention! Larger preparation	. 300 g preparation s or higher temperatures shorten pot life occssing time)	
Curing time at 20°C: (depending on layer thickness)	- accessible and coatable after - fully mechanically loadable approx.7 days Curing times double with a hi	y air moisture and temperature.  ~ 12 h, chargeable after ~ 48 h after 3-5 days, chemically loadable after gh air moisture ( > 70%). Ensure tely after processing. Ensure sufficient	
Shelf life:	~ 12 months at 15°C	C to 25°C storage temperature	
Cleaner for tools:	Water (if no curing has taken place)		
GISCODE:	RE 1 (epoxy res	sin products, solvent-free)	
<b>CE Norm</b> as per DIN EN13813:	CE-label:	EN 13813 SR-B2,2	
Mechanical properties: MR: binding agent with quartz sand:		7 of Polymer Institute Flörsheim t with 10 PBW quartz sand mix	
Adhesive tensile strength DIN EN 1542:	~	2.20 N/mm²	
Bending tensile strength DIN EN 196-1:	~	10.5 N/mm²	
Compression strength DIN EN 196-1:	~	23.3 N/mm²	
Mechanical properties: MR: binding agent with quartz sand:	Test report no. P 3835-26 of Polymer Institute Flörsheim 1 PBW binding agent with 8 PBW quartz sand mix		
Adhesive tensile strength DIN EN 1542:	~ 0.80 N/mm²		
Bending tensile strength DIN EN 196-1:	~ 10.7 N/mm²		
Compression strength DIN EN 196-1:	~	25.5 N/mm²	

#### Available bundle sizes 3 K EP-DF mortar

Artno:	Content:	<b>Bundle composition:</b>			
	Comp.A+B+C	Comp.A (resin)	Comp.B (hardener)	Comp.C (filler)	
05 04 01 0000-X11	27.50 kg	1.78 kg	0.72 kg	25.00 kg	
05 04 01 0000-X12	55.00 kg	3.57 kg	1.43 kg	2 x 25.00 kg	
05 04 01 0000-X13	137.00 kg	8.57 kg	3.43 kg	5 x 25.00 kg	
05 04 01 0000-X14	6327.00 kg	2 x 206 kg	1 x 165 kg	230 x 25.00 kg	

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		LASTISTONE® EP-DF sealing WE, coloured
Application areas:	<ul><li>→</li><li>→</li><li>→</li><li>→</li></ul>	As coloured top sealing on concrete and screed floors and other mineral substrates. Due to ist good vapour diffusion properties, the EP-DF sealing can also be applied on magnesite screeds and other problematic substrates. Everywhere where there are already even substrates and the corresponding capacity or stability of the subsoil for the expected loads already exists.  On high mechanical concentrated loads, like with forklift traffic, an EP-DP self-levelling coating starting from 2 mm is to be preferred. Or the sealing is being applied in several (3-4 minimum) layers with intermediate sanding on the entire surface.  Please mind the general advice in catalogue group 1!
Properties:	<del>^</del>	EP-sealing does not contain solvents (despite water), thus very little odour. The surface is silk-mat and according to processing slightly coarse or non-slip. Can be processed in thicker layers, e.g. with a rubber squeegee. Available in 26 different standard colour shades.  On light colour shades like RAL 1001/1002/1014/1021/9010, you should add the double amount of colour powder. (increase from 1 bag to two)  During processing and curing in closed rooms, mind that air moisture may increase due to the evaporation of water proportions of the EP-DF binding agent. Thus ensure sufficient ventilation.  (Otherwise there is a risk of curing disturbances or staining)  By full-surface dispersal with colour chips of the elastic sealing and subsequent colourless coating, terrazzo-like surfaces can be achieved that excel in a high scratch resistance and sure footedness.  With a chips quantity of up to ~ 0.20kg/m², you can work with a single colourless sealing. Starting from 0.20kg/m², you should reckon two process steps according to the sealing product.  Suitable sealings are 2K EP-sealing WE or the 2K PU-sealing WE mat.  For vehicle garages, you should not use the 2K PU-sealing as there is an increased risk of plasticizer discoloration.
GISCODE:	<b>→</b>	RE 1 (epoxy resin products, solvent-free)
CE Norm:	<b>→</b>	As per DIN EN13813: CE-label: EN 13813 SR-AR1-B3,9-IR8
Safety data sheets:	<b>&gt;</b>	On our homepage, domain Shop Articles
Resistance:	<b>→</b>	See catalogue group 1 chemical resistance of coating surfaces
Subsurface preparation:	<b>&gt;</b>	See catalogue group 1 General requirements to subsurface
Processing:		Stir the colour pigment for about 1 minute into component A by using a suitable agitator, then completely discharge component B into component A and mix for about 1 min. Then change the material into a larger pail and slowly add the filler with the agitator slowly running, mix ~ 1 min.  Attention! Manual mixing of component A and B is not possible as this would not result in sufficient curing.  Add a maximum of 5% water to the basic or top coat if necessary.  Processing with a rubber squeegee ensures a close impregnation of the subsoil which often replaces an additional leveling compound.  For achieving an even grain, seamless rolling is necessary. Irregular application leads to streaking.  Best results on a coloured paint are being achieved when using a 25 cm paint roller or on larger surfaces with a rubber squeegee. At the latest after 15 min. re-work without additional material with a 50 cm paint roller overlapping and seamless in one direction.

# 4 K PLASTISTONE® EP-DF sealing WE, coloured

We especially point out that the following technical values can only be achieved with components like binding agent / fillers / pigments. Plasti-Chemie International GmbH is not liable for the application of external products as technical properties may strongly deviate then.

Product data:		Company			4 D.
	Component A: Component B:				
Viscosity at 23 °C:	~ 180 mPas				
Solids content:		250 DI			7
Mix ratio PBW:		250 PI	ii	100 PBW	
Filler addition on comp.	A and comp.B:	6 % cc		50 % filler on comp	.A+B
Mixing time:				min.	
Material consumption:		more coat	ts as top coat with	her $\sim 0.35 - 0.45 \text{ kg}$ each $\sim 0.30 - 0.40 \text{ kg}$	kg / m². 2
		Applicati		ueegee, each 400g-	500g /m²
Density (mix):				kg / l	
Pot life at 20°C:				Attention! Larger pre en pot life (processin	
Curing time at 20°C:		- accessible after	r ~ 16 h, coatable a cally loadable after	moisture and temperafter ~ 24 h, charges 3-5 days, chemical	ıble after ~ 48h
		Curing time	es double with high	h air moisture (> 70° after processing. En	
				fter a curing time (a	
			0	ing (alkaline basic cl	<b>O</b> ,
		longer possible. (sanded subsurface are an exception)			
Shelf life:		~ 12 months at 15°C to 25°C storage temperature			
Colour:		Acc. to colour chart			
Cleaner for tools:		Water (if no initial curing has taken place)			
Steam-diffusion curren	t density:	Test rep	ort no. 4376 of Po	olymer Institute Flö	örsheim
Classification as per	DIN EN 7783-1: DIN EN 1504-2:	Rating class II  class $I = <5s_d(m)$ , class $II = >5-50s_d(m)$ , class $III = >50s_d(m)$			
Diffusion equivalent air	•				
Mechanical properties:		Test report no. P 3835-37 of Polymer Institute Flörsheim			
Shore D hardness DIN	53505:	~ 79 Shore D			
Adhesive tensile strength	DIN EN 1542:		~ 3.9 N/mm² 1009	% crack in concrete	
Bending tensile strength	DIN EN ISO 178:		~ 28.0	N/mm²	
Compressive strength Dl	IN EN ISO 604:	Compression stress, 10% strain ~ 32.4 N/mm² sample <b>not</b> destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed			
Abrasion resistance DIN EN ISO 5470-1		(Taber) ~ 77 mg/1000 U			
Impact resistance DIN EN ISO 6272		≤ 8 Nm			
	Available bundle s	sizes 4 K EP-DF sealing coloured, standard			
Artno: Bundle content:		Bundle composition:			
	Comp. A+B+C+D		Comp.B (hardener)	Comp.C (filler sealing)	Comp.D (pigment powder)
051201+RAL NrX15	7.80 kg	3.57 kg	1.43 kg	2.50 kg	0.30 kg
051201+RAL NrX16	18.72 kg	8.57 kg	3.43 kg	6.00 kg	0.72 kg
051201+RAL NrX17	899.56 kg	2 x 206 kg	1 x 165 kg	48 x 6.00 kg	48 x 0.72 kg

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4 K PLAS	STIS	STONE® EP–DF self-levelling coating WE 1.0 – 1.5 mm
Application areas:		As coloured, self-levelling thin coating for production halls, warehouses, garages on concrete, screed and magnesite as well as anhydrite substrates (tiles after appropriate preparation).  Application with light traffic by forklifts and electric pallet trucks. A total weight of 2.5t max should not be surpassed.  Can also be used in exterior areas, good UV-resistance but no 100 % colour stability (we recommend chips interspersal on the entire surface).  For substrate that cannot be coated with traditional systems due to household or oppressive humidity.  Before treating fresh concrete and screed floors, wait 10 days minimum. Then these floors can be coated with this system after having the m prepared by shot-blasting.  Please mind the general advice in catalogue group 1!
Properties:		Self-levelling from a layer thickness of 1.0 mm (acc. to substrate and at 20°C) Self-levelling (do not process with direct solar radiation) Available in 26 different standard colour shades. Colour pigment and fillers are only added during processing which results in a high flexibility for storage and application. After the EP-DF self-levelling coating has cured, apply a single-layer, thin sealing by using EP-sealing WE. In combination with anti-slip grit, a slip-resistant surface can be achieved. For achieving a mat surface, the 2 K PU-sealing WE is applied in one process step or the polymer emulsion in two layers undiluted. In visual areas, like entrance halls, staircases, exposition halls, offices, where increased scratch resistance is required, we recommend to disperse a minimum of 100g/m² colour chips onto the fresh self-levelling coating as additional protection. After curing, apply an additional sealer. During processing and curing in closed rooms, mind that air moisture may increase due to the evaporation of water proportions of the EP-DF binding agent. Thus ensure sufficient ventilation. (Otherwise there is a risk of curing disturbances or staining) For vehicle garages, you should not use the 2K PU-sealing as there is an increased risk of plasticizer discoloration.
GISCODE:	<b>→</b>	RE 1 (epoxy resin products, solvent-free)
CE Norm:	<b>→</b>	As per DIN EN13813: CE-label: EN 13813 SR-AR1-B4,1-IR8
Safety data sheets:	<b>→</b>	On our homepage, domain Shop Articles
Resistance: Subsurface preparation:  Processing:	<ul><li>→</li><li>→</li><li>→</li></ul>	See catalogue group 1 General requirements to subsurface Use the EP-DF binding agent as primer coat on the surface. It is essential that the primer coat forms a closed film on the surface. If there is no leveling compound as intermediate layer, repeat work step "priming" on very absorptive substrates. An insufficiently blocked substrate may cause blistering in the upper coating. For unevennesses up to ~ 5 mm, the EP/DF-fine spatula can be used. We recommend a levelling compound as intermediate layer with ~ 1.0 kg/m², as smaller warpings show in the upper layer of a thin coating. On deep disruptions, the EP/DF-mortar or EP-mortar can be used (the EP-DF primer must have cured!).
Trocessing.		then completely discharge component B into component A and mix for about 1 min. Then change the material into a larger pail and slowly add the filler with the agitator slowly running, mix ~ 1 min.  Discharge the mix onto the surface and disperse with a tooth trowel and roll off with a spiked roller.

### 4 K PLASTISTONE® EP-DF self-levelling coating WE 1.0 – 1.5 mm

We especially point out that the following technical values can only be achieved with components like binding agent / fillers / pigments. Plasti-Chemie International GmbH is not liable for the application of external products as technical properties may strongly deviate then.

Viscosity at 23 °C:  ~ 180 mPas  ~ 1150 mPas  Solids content:  ~ 78 % with fillers and pigments  Mix ratio PBW:  250 PBW  100 PBW  Filler addition on comp. A and comp.B:  6 % colour pigment and 100 % fillers on comp. A+B  Mixing time:  Material consumption:  Practical consumption with trowel toothing: no. 20 max. 2.0 kg/m² = 1.25 mm no. 23 max. 2.5 kg/m² = 1.56 mm  Density (mix):  Pot life at 20°C:  Curing time at 20°C:  Curing time at 20°C:  Curing times are influenced by air moisture and temperature accessible after ~ 16 h, coatable after ~ 24 h, chargeable after ~ 48h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days  Curing times double with high air moisture (> 70%). Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)  Shelf life:  Cleaner for tools:  Water (if no initial curing has taken place)  Test report no. 4376 of Polymer Institute Flörsheim  Pating along II.  Pating along II.  Pating along II.		as tecnnical	· · · · · ·	strongly deviate th		
Solids content:	Product data:				Component B:	
Mix ratio PBW:   250 PBW	Viscosity at 23 °C:		~ 180 mPas ~ 1150 mPas			nPas
Mixing time:   3 min. minimum   Practical consumption with trowel toothing: no. 20 max. 2.0 kg/m² = 1.25 mm no. 23 max. 2.5 kg/m² = 1.56 mm   Density (mix):   1.60 kg / 1   -60 min. / 300 g prep. Attention! Larger preparations or higher temperatures shorten pot life (processing time)   Curing time at 20°C:   Curing time at 20°C:   Curing time at 20°C:   Curing time at 20°C:   Curing times are influenced by air moisture and temperature accessible after ~ 16 h. coatable after ~ 24 h. chargeable after ~ 48h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days   Curing times double with high air moisture (> 70%). Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)   Cleaner for tools:   Steam-diffusion current density:   Test report no. 4376 of Polymer Institute Flörsheim   Mechanical properties:   Test report no. 4376 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flörsheim   Test report no. P 3835-39 of Polymer Institute Flö	Solids content:			~ 78 % with fill	ers and pigments	
Mixing time:         3 min. minimum           Material consumption:         Practical consumption with trowel toothing:           Density (mix):         1.60 kg / 1         − 60 min. / 300 g prep. Attention! Larger preparations or higher temperatures shorten pot life (processing time)           Curing time at 20°C:         Curing times are influenced by air moisture and temperature:	Mix ratio PBW:		250 PI	3W	100 PB	W
Practical consumption with trowel toothing: no. 20 max, 2.0 kg/m² = 1.25 mm no. 23 max, 2.5 kg/m² = 1.56 mm  Density (mix):  Pot life at 20°C:  Curing time at 20°C:  Curing time at 20°C:  Curing time at 20°C:  Curing time at 20°C:  Curing times are influenced by air moisture and temperature.  - accessible after ~ 16 h, coatable after ~ 24 h, chargeable after ~ 48h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days  Curing times double with high air moisture (> 70%). Ensure sufficient ventilation immediately after processing. Ensure sufficient ventilation immediately after a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)  Shelf life:  Colour:  Colour:  Colour:  Cleaner for tools:  Steam-diffusion current density:  method as per  DIN EN 7783-1: Classification as per  DIN EN 7783-1: Classification as per  DIN EN 7783-1: Classification as per  DIN EN 1504-2: Diffusion equivalent air layer thickness m:  Mechanical properties:  Test report no. 4376 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Compressive tensile strength DIN EN ISO 604:  Compression stress, 10% strain ~ 32.9 N/mm² sample not destroyed Compression stress, 20% strain ~ 32.9 N/mm² sample destroyed  Compression stress, 20% strain ~ 32.9 N/mm² sample destroyed  Compression stress, 20% strain ~ 32.9 N/mm² sample not destroyed Compression resistance DIN EN ISO 6072  Se 8 m  On customer request 10.30 kg and 24.72 kg bundles are available pigmented!  Available bundle sizes 4 K EP-DF self-levelling coating 1.0 − 1.5 mm, standard  Artno:  Bundle size:  Bundle composition:  Comp. (right for 1.0 (pigment powder))  051301+RAL NrX18  10.30 kg  051301+RAL NrX19  24.72 kg	Filler addition on comp.	A and comp.B:	6 % col	our pigment and 1	00 % fillers on co	mp. A+B
Density (mix):	Mixing time:			3 min. 1	ninimum	
Pot life at 20°C:  Curing time at 20°C:  Curing time at 20°C:  Curing time at 20°C:  Curing times are influenced by air moisture and temperature accessible after ~ 16 h, coatable after ~ 24 h, chargeable after ~ 48h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days Curing times double with high air moisture (> 70%). Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)  Shelf life:  Colour:  Colour:  Colour:  Cleaner for tools:  Water (if no initial curing has taken place)  Steam-diffusion current density:  Test report no. 4376 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Compressive strength DIN EN ISO 178:  Compressive strength DIN EN ISO 604:  Compressive strength DIN EN ISO 604:  On customer request 10.30 kg and 24.72 kg bundles are available pigmented!  Available bundle sizes 4 K EP-DF self-levelling coating 1.0 – 1.5 mm, standard  Artno:  Bundle size:  Bundle composition:  Comp. Comp. Comp. (Filler for 1.0- (Digment powder))  051301+RAL NrX18 10.30 kg 3.57 kg 1.43 kg 5.0 kg 0.30 kg 051301+RAL NrX19 24.72 kg 8.57 kg 3.43 kg 12.00 kg 0.72 kg	Material consumption:					
Curing time at 20°C:  Curing time at 20°C:  Curing time are influenced by air moisture and temperature.  - accessible after ~ 16 h, coatable after ~ 24 h, chargeable after ~ 48h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days  Curing times double with high air moisture (> 70%). Ensure sufficient ventilation immediately after processing. Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)  Shelf life:  - 12 months at 15°C to 25°C storage temperature  Colour:  - Acc. to colour chart  Cleaner for tools:  Steam-diffusion current density:  method as per - DIN EN 7783-1: Classification as per - DIN EN 1504-2: Diffusion equivalent air layer thickness m:  Mechanical properties:  Shore D hardness - DIN 53505:  - Test report no. 4376 of Polymer Institute Flörsheim  Mechanical properties:  Shore D hardness - DIN EN 1542:  Bending tensile strength DIN EN 1542:  Bending tensile strength DIN EN 150 178:  Compressive strength DIN EN ISO 604:  Compressive strength DIN EN ISO 604:  On customer request 10.30 kg and 24.72 kg bundles are available pigmented!  Available bundle sizes 4 K EP-DF self-levelling coating 1.0 – 1.5 mm, standard  Artno:  Bundle size:  Bundle composition:  Comp. Comp. Artno: Bundle size:  Bundle composition:  Comp. Comp. Comp. (Pigment product)  Composition:  Artno:  Bundle size:  Bundle composition:  Comp. Comp. (Pigment product)  Composition:  Composition:  Composition:  Composition:  Composition:  Composition:  Composition:  Composit	Density (mix):			1.60	kg / 1	
- accessible after ~ 16 h, coatable after ~ 24 h, chargeable after ~ 48h - fully mechanically loadable after approx.7 days  Curing times double with high air moisture (> 70%). Ensure sufficient ventilation immediately after processing. Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)  Shelf life:  Colour:  Acc. to colour chart  Cleaner for tools:  Water (if no initial curing has taken place)  Steam-diffusion current density:  Test report no. 4376 of Polymer Institute Flörsheim  method as per DIN EN 7783-1: Classification as per DIN EN 1504-2: Diffusion equivalent air layer thickness m:  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Test report no. P 3835-39 of Polymer Institute Flörsheim  Mechanical properties:  Compressive strength DIN EN ISO 178:  Compressive strength DIN EN ISO 178:  Compressive strength DIN EN ISO 178:  Compressive strength DIN EN ISO 604:  On customer request 10.30 kg and 24.72 kg bundles are available pigmented!  Available bundle sizes 4 K EP-DF self-levelling coating 1.0 – 1.5 mm, standard  Artno:  Bundle size:  Bundle composition:  Comp. Comp. (filler for 1.0-1.5 mm)  Do 1301+RAL NrX18  10.30 kg  3.57 kg  1.43 kg  5.0 kg  0.30 kg  0.51301+RAL NrX19  24.72 kg  8.57 kg  3.43 kg  12.00 kg  0.72 kg	Pot life at 20°C:			01 1	0 1 1	•
Colour:   Acc. to colour chart	Curing time at 20°C:		Curing times are influenced by air moisture and temperature accessible after ~ 16 h, coatable after ~ 24 h, chargeable after ~ 48h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days Curing times double with high air moisture (> 70%). Ensure sufficient ventilation immediately after processing. Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no			
Water (if no initial curing has taken place)   Steam-diffusion current density:	Shelf life:		~ 12 r	months at 15°C to	25°C storage temp	erature
Steam-diffusion current density:         Test report no. 4376 of Polymer Institute Flörsheim           method as per Classification as per DIN EN 1504-2: Diffusion equivalent air layer thickness m:         DIN EN 1504-2: Class I = <5.50s <sub>d</sub> (m), class II = >5.50s <sub>d</sub> (m), class III = >50s <sub>d</sub> (m)           Mechanical properties:         Test report no. P 3835-39 of Polymer Institute Flörsheim           Shore D hardness DIN 53505:         ~ 76 Shore D           Adhesive tensile strength DIN EN 1542:         ~ 4.1 N/mm² 100% crack in concrete           Bending tensile strength DIN EN ISO 178:         ~ 25.9 N/mm²           Compressive strength DIN EN ISO 604:         Compression stress, 10% strain ~ 32.9 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed           Abrasion resistance DIN EN ISO 6470-1         (Taber) ~ 78 mg/1000 U           Impact resistance DIN EN ISO 6672         ≤ 8 Nm           On customer request 10.30 kg and 24.72 kg bundles are available pigmented!           A vailable bundle sizes 4 K EP-DF self-levelling coating 1.0 − 1.5 mm, standard           Artno:         Bundle size:           Comp.A (resin)         Comp.B (hardener)         (filler for 1.0- (pigment powder)           051301+RAL NrX18         10.30 kg         3.57 kg         1.43 kg         5.0 kg         0.30 kg           051301+RAL NrX19         24.72 kg         8.57 kg         3.43 kg         12.00 kg         0.72	Colour:		Acc. to colour chart			
method as per DIN EN 7783-1: DIN EN 7783-1: DIN EN 1504-2: Diffusion equivalent air layer thickness m: Class I = $<5s_d(m)$ , class II = $>5-50s_d(m)$ , class III = $>50s_d(m)$	Cleaner for tools:		Water (if no initial curing has taken place)			
Classification as per DIN EN 1504-2: Diffusion equivalent air layer thickness m: class $I = <5s_{d}(m)$ , class $II = >5-50s_{d}(m)$ , class $III = >50s_{d}(m)$ Mechanical properties: Test report no. P 3835-39 of Polymer Institute Flörsheim  Shore D hardness DIN 53505: $\sim 76$ Shore D  Adhesive tensile strength DIN EN 1542: $\sim 4.1$ N/mm² 100% crack in concrete  Bending tensile strength DIN EN ISO 178: $\sim 25.9$ N/mm²  Compressive strength DIN EN ISO 604: Compression stress, 10% strain $\sim 32.9$ N/mm² sample not destroyed Compression resistance DIN EN ISO 5470-1 (Taber) $\sim 78$ mg/1000 U  Impact resistance DIN EN ISO 6272 $\leq 8$ Nm  On customer request 10.30 kg and 24.72 kg bundles are available pigmented!  Available bundle sizes 4 K EP-DF self-levelling coating 1.0 – 1.5 mm, standard  Artno: Bundle size: Bundle composition:  Comp. A+B+C+D Comp.A (resin) (Riller for 1.0-1.5 mm) (pigment powder)  051301+RAL NrX18 10.30 kg 3.57 kg 1.43 kg 5.0 kg 0.30 kg 051301+RAL NrX19 24.72 kg 8.57 kg 3.43 kg 12.00 kg 0.72 kg	Steam-diffusion curren	t density:	Test rep	ort no. 4376 of P	olymer Institute I	Flörsheim
Mechanical properties:         Test report no. P 3835-39 of Polymer Institute Flörsheim           Shore D hardness DIN 53505:         ~ 76 Shore D           Adhesive tensile strength DIN EN 1542:         ~ 4.1 N/mm² 100% crack in concrete           Bending tensile strength DIN EN ISO 178:         ~ 25.9 N/mm²           Compressive strength DIN EN ISO 604:         Compression stress, 10% strain ~ 32.9 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed           Abrasion resistance DIN EN ISO 5470-1         (Taber) ~ 78 mg/1000 U           Impact resistance DIN EN ISO 6272         ≤ 8 Nm           On customer request 10.30 kg and 24.72 kg bundles are available pigmented!           Available bundle sizes 4 K EP-DF self-levelling coating 1.0 − 1.5 mm, standard           Artno:         Bundle size:           Bundle composition:           Comp. A(resin)         Comp.B(filler for 1.0-1.5mm)         (pigment powder)           051301+RAL NrX18         10.30 kg         3.57 kg         1.43 kg         5.0 kg         0.30 kg           051301+RAL NrX19         24.72 kg         8.57 kg         3.43 kg         12.00 kg         0.72 kg	Classification as per	DIN EN 1504-2:	_			
Adhesive tensile strength DIN EN 1542:  Bending tensile strength DIN EN ISO 178:  Compressive strength DIN EN ISO 604:  Compression stress, 10% strain ~ 32.9 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample not destroyed Compression stress,	_	-				
Compressive strength DIN EN ISO 178:   ~ 25.9 N/mm²	Shore D hardness DIN	53505:	_	~ 76 \$	Shore D	
Compressive strength DIN EN ISO 604:  Compression stress, 10% strain ~ 32.9 N/mm² sample <b>not</b> destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample <b>not</b> destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed  Abrasion resistance DIN EN ISO 5470-1  Impact resistance DIN EN ISO 6272 $\leq 8 \text{ Nm}$ On customer request 10.30 kg and 24.72 kg bundles are available pigmented!  Available bundle sizes 4 K EP-DF self-levelling coating 1.0 – 1.5 mm, standard  Artno:  Bundle size:  Comp. Comp. C (filler for 1.0- (pigment powder))  Comp. A+B+C+D  Comp. A (resin)  Comp. B (hardener)  1.5 mm)  Comp. C (pigment powder)  051301+RAL NrX18  10.30 kg  3.57 kg  3.43 kg  12.00 kg  0.72 kg	Adhesive tensile strength	DIN EN 1542:	~ 4.1 N/mm² 100% crack in concrete			
Compressive strength DIN EN ISO 604:  Compression stress, 10% strain ~ 32.9 N/mm² sample <b>not</b> destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample <b>not</b> destroyed Compression stress, 20% strain ~ 38.0 N/mm² sample destroyed  Abrasion resistance DIN EN ISO 5470-1  Impact resistance DIN EN ISO 6272 $\leq 8 \text{ Nm}$ On customer request 10.30 kg and 24.72 kg bundles are available pigmented!  Available bundle sizes 4 K EP-DF self-levelling coating 1.0 – 1.5 mm, standard  Artno:  Bundle size:  Comp. Comp. C (filler for 1.0- (pigment powder))  Comp. A+B+C+D  Comp. A (resin)  Comp. B (hardener)  1.5 mm)  Comp. C (pigment powder)  051301+RAL NrX18  10.30 kg  3.57 kg  3.43 kg  12.00 kg  0.72 kg	Bending tensile strength	DIN EN ISO 178:	~ 25.9 N/mm²			
Abrasion resistance DIN EN ISO 5470-1 (Taber) $\sim 78 \text{ mg/}1000 \text{ U}$ Impact resistance DIN EN ISO 6272 $\leq 8 \text{ Nm}$ On customer request 10.30 kg and 24.72 kg bundles are available pigmented!  Available bundle sizes 4 K EP-DF self-levelling coating 1.0 – 1.5 mm, standard  Artno: Bundle size: Bundle composition:  Comp. Comp.A (resin) Comp.B (hardener) (filler for 1.0-1.5 mm) (pigment powder)  051301+RAL NrX18 10.30 kg 3.57 kg 1.43 kg 5.0 kg 0.30 kg 051301+RAL NrX19 24.72 kg 8.57 kg 3.43 kg 12.00 kg 0.72 kg						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Abrasion resistance DIN	EN ISO 5470-1				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Impact resistance DIN	EN ISO 6272	≤ 8 Nm			
Artno:         Bundle size:         Bundle composition:           Comp. A+B+C+D         Comp.A (resin)         Comp.B (hardener)         Comp.C (filler for 1.0-1.5mm)         Comp.D (pigment powder)           051301+RAL NrX18         10.30 kg         3.57 kg         1.43 kg         5.0 kg         0.30 kg           051301+RAL NrX19         24.72 kg         8.57 kg         3.43 kg         12.00 kg         0.72 kg	On cust	omer request 10.30	0 kg and 24.72 kg bundles are available pigmented!			
Artno:         Bundle size:         Bundle composition:           Comp. A+B+C+D         Comp.A (resin)         Comp.B (hardener)         Comp.C (filler for 1.0-1.5mm)         Comp.D (pigment powder)           051301+RAL NrX18         10.30 kg         3.57 kg         1.43 kg         5.0 kg         0.30 kg           051301+RAL NrX19         24.72 kg         8.57 kg         3.43 kg         12.00 kg         0.72 kg	Available bundle sizes 4 K EP-DF self-levelling coating 1.0 – 1.5 mm, standard					tandard
Comp. A+B+C+D         Comp.A (resin)         Comp.B (hardener)         Comp.B (filler for 1.0-1.5mm)         Comp.D (pigment powder)           051301+RAL NrX18         10.30 kg         3.57 kg         1.43 kg         5.0 kg         0.30 kg           051301+RAL NrX19         24.72 kg         8.57 kg         3.43 kg         12.00 kg         0.72 kg						
051301+RAL NrX19 <b>24.72 kg</b> 8.57 kg 3.43 kg 12.00 kg 0.72 kg		Comp.	_	Comp.B	Comp.C (filler for 1.0-	(pigment
	051301+RAL NrX18	10.30 kg	3.57 kg	1.43 kg	5.0 kg	0.30 kg
051301+RAL NrX20 <b>1187.56 kg</b> 2x 206 kg 1x 165 kg 48x 12.00 kg 48x 0.72 kg	051301+RAL NrX19	24.72 kg	8.57 kg	3.43 kg	12.00 kg	0.72 kg
	051301+RAL NrX20	1187.56 kg	2x 206 kg	1x 165 kg	48x 12.00 kg	48x 0.72 kg

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AKDIAS	TTI	STONE® EP-DF self-levelling coating WE 1.5 – 2.0 mm
4 K I LAS	11	TONES ET -Dr sen-levelling coating WE 1.5 - 2.0 lilli
Application areas:	<b>→</b>	As coloured, self-levelling thin coating for production halls, warehouses, garages on concrete, screed and magnesite as well as anhydrite substrates (tiles after appropriate preparation.
	<b>→</b>	From layer thicknesses of 2 mm, this coating is suitable for vehicular traffic like forklift
	<b>→</b>	trucks (4 wheel version) with loads up to 3.5t.  Can also be used in exterior areas, good UV-resistance but no 100 % colour stability (we
	<b>→</b>	recommend chips interspersal on the entire surface).  For substrate that cannot be coated with traditional systems due to household or
	<b>→</b>	oppressive humidity. Before treating fresh concrete and screed floors, wait 10 days minimum. Then these floors
	<b>→</b>	can be coated with this system after having the m prepared by shot-blasting.  Please mind the general advice in catalogue group 1!
Properties:	<b>→</b>	Self-levelling from a layer thickness of 1.5 mm (from 2.5kg/m² at 20°C) Self-levelling (do not process with direct solar radiation)
	<b>→</b>	Available in 26 different standard colour shades. Colour pigment and fillers are only
	<b>→</b>	added during processing which results in a high flexibility for storage and application.  After the EP-DF self-levelling coating has cured, apply a single-layer, thin sealing by using EP-sealing WE. In combination with anti-slip grit, a slip-resistant surface can be achieved.
	<b>→</b>	For achieving a mat surface, the 2 K PU-sealing WE is applied in one process step or the polymer emulsion in two layers undiluted.
	<b>→</b>	In visual areas, like entrance halls, staircases, exposition halls, offices, where increased
		scratch resistance is required, we recommend to disperse a minimum of 100g/m² colour chips onto the fresh self-levelling coating as additional protection. After curing, apply an additional sealer.
	<b>→</b>	During processing and curing in closed rooms, mind that air moisture may increase due to the evaporation of water proportions of the EP-DF binding agent. Thus ensure sufficient ventilation.  (Otherwise there is a risk of curing disturbances or staining)
	<b>→</b>	For vehicle garages, you should not use the 2K PU-sealing as there is an increased risk of plasticizer discoloration.
GISCODE:	<b>→</b>	RE 1 (epoxy resin products, solvent-free)
CE Norm:	<b>→</b>	As per DIN EN13813: CE-label: EN 13813 SR-AR1-B3,6-IR8
Safety data sheets:	<b>→</b>	On our homepage, domain Shop Articles
Resistance:	<b>→</b>	See catalogue group 1 chemical resistance of coating surfaces
Subsurface preparation:	<b>→ →</b>	See catalogue group 1 General requirements to subsurface Use the EP-DF binding agent as primer coat on the surface. It is essential that the primer coat forms a closed film on the surface. If there is no leveling compound as intermediate layer, repeat work step "priming" on very absorptive substrates. An insufficiently blocked substrate may cause blistering in the upper coating. For unevennesses up to ~ 5 mm, the EP/DF-fine spatula can be used. We recommend a levelling compound as intermediate layer with ~ 1.0 kg/m², as smaller warpings show in the upper layer of a thin coating. On deep disruptions, the EP/DF-mortar or EP-mortar can be used (the EP-DF primer must have cured!).
Processing:	<b>→</b>	Stir the colour pigment for about 1 minute into component A by using a suitable agitator, then completely discharge component B into component A and mix for about 1 min. Then change the material into a larger pail and slowly add the filler with the agitator slowly running, mix ~ 1 min. Discharge the mix onto the surface and disperse with a tooth trowel and roll off with a spiked roller.

### 4 K PLASTISTONE® EP-DF self-levelling coating WE 1.5 – 2.0 mm

We especially point out that the following technical values can only be achieved with components like binding agent / fillers / pigments. Plasti-Chemie International GmbH is not liable for the application of external products as technical properties may strongly deviate then.

	as technical	properties may strongly deviate then.					
Product data:	Compone	nt A:	Compone	nt B:			
Viscosity at 23 °C:	~ 180 m	Pas	~ 1150 m	Pas			
Solids content:			~ 82 % with fill	ers and pigments			
Mix ratio PBW:		250 PE	W	100 PB	W		
Filler addition on comp.A an	d comp.B:	6 % colo	our pigment and 1	50 % fillers on cor	np. A+B		
Mixing time:			3 min. r	ninimum			
Material consumption:				ax. $2.5 \text{ kg/m}^2 = 1.5$ no.25 max. $3.4 \text{ kg}$			
Density (mix):				kg / 1			
Pot life at 20°C:				on! Larger preparat ot life (processing			
Curing time at 20°C:	Curing times are influenced by air moisture and temperature accessible after ~ 16 h, coatable after ~ 24 h, chargeable after ~ 48h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days Curing times double with high air moisture (> 70%). Ensure sufficient ventilation immediately after processing. Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)						
Shelf life:		~ 12 n	nonths at 15°C to 2	25°C storage temp	erature		
Colour:		Acc. to colour chart					
Cleaner for tools:		Water (if no initial curing has taken place)					
GISCODE:				roducts, solvent-fr			
CE Norm as per DIN EN138	813:	C	E-label: EN 1381	3 SR-AR1-B3,6-II	R8		
Steam-diffusion current de	nsity:	Test rep	ort no. 4376 of Po	olymer Institute F	lörsheim		
l *	I EN 7783-1: I EN 1504-2: r thickness m:	$Rating \ class \ II$ $class \ I = <5s_d(m), \ class \ II = >5-50s_d(m), \ class \ III = >50s_d(m)$					
Mechanical properties:		Test report no. P 3835-40 of Polymer Institute Flörsheim					
Shore D hardness DIN 5350	05:	~ 81 Shore D					
Adhesive tensile strength DII	N EN 1542:	~ 3.6 N/mm² 100% crack in concrete					
Bending tensile strength DIN	I EN ISO 178:	~ 20.8 N/mm²					
Compressive strength DIN E		Compression stress, 12% strain ~ 29.7 N/mm² sample <b>not</b> destroyed					
Abrasion resistance DIN EN	ISO 5470-1	(Taber) ~ 78 mg/1000 U					
Impact resistance DIN EN I	ISO 6272	≤ 8 Nm					
On customer request 12.8		00 kg and 30.72 kg bundles are available pigmented!					
Available bu		EP-DF self-levelling coating 1.5 – 2.0 mm, standard					
	ndle sizes 4 K	EP-DF self-level	ing coating 1.5 -	2.0 mm, standar	Bundle composition:		
Artno: I	andle sizes 4 K Bundle size:	EP-DF self-level	0 0				
		Comp.A (resin)	0 0		Comp.D (pigment powder)		
	Bundle size: Comp.	Comp.A	Bundle co	mposition:  Comp.C  (filler for 1.5-	Comp.D (pigment		
	Bundle size: Comp. A+B+C+D	Comp.A (resin)	Bundle co Comp.B (hardener)	mposition:  Comp.C (filler for 1.5- 2.0 mm)	Comp.D (pigment powder)		

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A IZ DI A S	TT	STONE® ED DE solf levelling coating WE 2.5. 2.0 mm
4 K PLAS	11	STONE® EP–DF self-levelling coating WE 2.5 – 3.0 mm
Application areas:	<b>→</b>	As coloured, self-levelling thick coating for production halls, warehouses, garages on concrete, screed and magnesite as well as anhydrite substrates (tiles after appropriate preparation.
	<b>→</b>	Suitable for heavy-duty vehicular traffic, pallet trucks (4 wheel version) with high
	<b>→</b>	concentrated loads up to 6 t.  Can also be used in exterior areas, good UV-resistance but no 100 % colour stability (we
	<b>→</b>	recommend chips interspersal on the entire surface).  For substrate that cannot be coated with traditional systems due to household or
	<b>→</b>	oppressive humidity. Before treating fresh concrete and screed floors, wait 10 days minimum. Then these floors
	<b>→</b>	can be coated with this system after having the m prepared by shot-blasting.  Please mind the general advice in catalogue group 1!
Properties:	<b>→</b>	Self-levelling from a layer thickness of 2.5 mm (from 4.5kg/m² at 20°C) Self-levelling (do not process with direct solar radiation)
	<b>→</b>	Available in 26 different standard colour shades. Colour pigment and fillers are only
	<b>→</b>	added during processing which results in a high flexibility for storage and application.  After the EP-DF self-levelling coating has cured, apply a single-layer, thin sealing by using EP-sealing WE. In combination with anti-slip grit, a slip-resistant surface can be achieved.
	<b>→</b>	For achieving a mat surface, the 2 K PU-sealing WE is applied in one process step or the polymer emulsion in two layers undiluted.
	<b>→</b>	In visual areas, like entrance halls, staircases, exposition halls, offices, where increased
		scratch resistance is required, we recommend to disperse a minimum of 100g/m² colour chips onto the fresh self-levelling coating as additional protection. After curing, apply an additional sealer.
	<b>→</b>	During processing and curing in closed rooms, mind that air moisture may increase due to the evaporation of water proportions of the EP-DF binding agent. Thus ensure sufficient ventilation.
	<b>→</b>	(Otherwise there is a risk of curing disturbances or staining) For vehicle garages, you should not use the 2K PU-sealing as there is an increased risk of plasticizer discoloration.
GISCODE:	<b>→</b>	RE 1 (epoxy resin products, solvent-free)
CE Norm:	$\rightarrow$	As per DIN EN13813: CE-label: EN 13813 SR-AR1-B4,1-IR8-B <sub>fl</sub> -s1
Safety data sheets:	<b>→</b>	On our homepage, domain Shop Articles
Resistance:	<b>→</b>	See catalogue group 1 chemical resistance of coating surfaces
Subsurface preparation:	<b>→ → →</b>	See catalogue group 1 General requirements to subsurface Use the EP-DF binding agent as primer coat on the surface. It is essential that the primer coat forms a closed film on the surface. If there is no leveling compound as intermediate layer, repeat work step "priming" on very absorptive substrates. An insufficiently blocked substrate may cause blistering in the upper coating.
	<b>→</b>	For unevennesses up to ~ 5 mm, the EP/DF-fine spatula can be used. We recommend a levelling compound as intermediate layer with ~ 1.0 kg/m², as smaller warpings show in the upper layer of a thin coating. On deep disruptions, the EP/DF-mortar or EP-mortar can be used (the EP-DF primer must have cured!).
Processing:	<b>→</b>	Stir the colour pigment for about 1 minute into component A by using a suitable agitator, then completely discharge component B into component A and mix for about 1 min. Then change the material into a larger pail and slowly add the filler with the agitator slowly running, mix ~ 1 min. Discharge the mix onto the surface and disperse with a tooth trowel and roll off with a spiked roller.



48x 0.72 kg

48x 25.00 kg

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Technical data sheet date 2019

### 4 K PLASTISTONE® EP-DF self-levelling coating WE 2.5 – 3.0 mm

We especially point out that the following technical values can only be achieved with components like binding agent / fillers / pigments. Plasti-Chemie International GmbH is not liable for the application of external products as technical properties may strongly deviate then.

	as teeminear	properties may s	strongry deviate t	iicii.		
Product data:	Compon	ent A:	Componen	t B:		
Viscosity at 23 °C:	~ 180 mPas ~ 1150 mPas					
Solids content:		~ 82 % with fillers and pigments				
Mix ratio PBW:		250 P	BW	100 PBV	V	
Filler addition on comp.	A and comp.B:	6 % col	lour pigment and	208 % fillers on com	p. A+B	
Material consumption:				$6 \text{ max. } 4.5 \text{ kg/m}^2 = 2.5$ $8 \text{ max. } 5.4 \text{ kg/m}^2 = 3.0$		
Density (mix):			1.8	80 kg / 1		
Pot life at 20°C:			~ 60 min. / 3	300 g preparation		
Curing time at 20°C:	Curing times are influenced by air moisture and temperature accessible after ~ 16 h, coatable after ~ 24 h, chargeable after ~48h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days Curing times double with high air moisture (> 70%). Ensure sufficient ventilation immediately after processing. Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception)					
Shelf life:				o 25°C storage temper	rature	
Colour:				colour chart		
Cleaner for tools:		W		curing has taken plac	e)	
GISCODE:		RE 1 (epoxy resin products, solvent-free)				
CE Norm as per DIN El	N13813:	CE-label: EN 13813 SR-AR1-B4,1-IR8-B <sub>fl</sub> -s1				
Steam-diffusion curren		Test report no. 4376 of Polymer Institute Flörsheim				
method as per Classification as per Diffusion equivalent air	Rating class II class $I = <5s_d(m)$ , class $II = >5-50s_d(m)$ , class $III = >50s_d(m)$					
Fire behaviour:	•			oratory (MPA), Stu		
As per DIN 4102	(D - Norm):			0-DF / fire class: DIN		
As per DIN EN 13501-1	(EU - Norm)	<del>-</del>		0012110-80 DF / fire		
Mechanical properties:		Test report no. P 3835-41 of Polymer Institute Flörsheim				
Shore D hardness DIN		~ 81 Shore D				
Adhesive tensile strength	n DIN EN 1542:	~ 4.1 N/mm² 92 % crack in concrete				
Bending tensile strength		~ 23.7 N/mm²				
Compressive strength DI		Compression stress, 12% strain ~ 36.2 N/mm <sup>2</sup>				
Abrasion resistance DIN		(Taber) ~ 66 mg/1000 U				
	Impact resistance DIN EN ISO 6272		≤ 8 Nm			
-	0 kg and 37.72 kg bundles are available pigmented!					
	EP-DF self-levelling coating 2.5 – 3.0 mm, standard					
Artno:	Bundle size:	Bundle composition:				
	Comp. A+B+C+D	Comp.A (resin)	Comp.B (hardener)	Comp.C (filler 2.5-3.0 mm)	Comp.D (pigment powder)	
051501+RAL NrX24	15.70 kg	3.57 kg	1.43 kg	10.40 kg	0.30 kg	
051501+RAL NrX25	37.72 kg	8.57 kg	3.43 kg	25.00 kg	0.72 kg	

1817.56 kg

2x 206 kg

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1x 165 kg

051501+RAL Nr.-X26



TIS	TONE® EP-DF self-levelling coating WE conductive 1.5 – 2.0 mm
<b>→</b>	As coloured, self-levelling, conductive coating for production halls, warehouses, computer cabinets, department stores, hospitals, garages, food-processing companies on concrete, screed and magnesite as well as anhydrite substrates. Furthermore in bottling companies, everywhere where combustible gas/air mixtures or flammable liquids are being used or where electrostatic charging of floor surfaces is to be omitted.
<ul><li>→</li><li>→</li><li>→</li><li>→</li></ul>	Discharge resistance amounts to $10^4$ to $10^6$ Ohm in cured condition.  Coating is breathable and can thus be used on substrates with increased household or oppressive humidity. Also on magnesite floors.  Suitable for forklifts and pallet trucks, available in 26 different standard colour shades  Total layer thickness $1.5 - 2$ mm in 4 process steps (with maintenance emulsion)  Trafficable 3 days after application of the top layer at $20  ^{\circ}\text{C}$
	RE 1 (epoxy resin products, solvent-free)
<b>→</b>	As per DIN EN13813: CE-label: EN 13813 SR-AR1-B3,5-IR16
<b>→</b>	On our homepage, domain Shop Articles
<b>→</b>	See catalogue group 1 chemical resistance of coating surfaces
→ →	Use the EP-DF binding agent as primer coat on the surface. It is essential that the primer coat forms a closed film on the surface. If there is no leveling compound as intermediate layer, repeat work step "priming" on very absorptive substrates. An insufficiently blocked substrate may cause blistering in the upper coating. For unevennesses up to ~ 5 mm, the EP/DF-fine spatula can be used. We recommend a levelling compound as intermediate layer with ~ 1.0 kg/m², as smaller warpings show in the upper layer of a thin coating. On deep disruptions, the EP/DF-mortar or EP-mortar can be used (the EP-DF primer must have cured!). Now the surface's evenness should be verified once more and intermediate grinding be effected if necessary, as warpings have negative effects on conductivity. Attention!! Do not sand intermediate layers!!!!
→ → →	Now the self-adhesive copper strips are pasted onto the floor with a distance or grid of ~5 * 5 m.  On small surfaces up to ~100 m², 2-4 strings in fan shape are sufficient - on the floor with a length of ~1 m and drawn up on the wall about 30 cm.  Make sure you have cleaned these areas with acetone or something similar beforehand. Press on the copper strips with a cloth. The free ends of the copper strips need to be drawn up vertically about 30 cm on the walls and connected by an electrician to the ring line or directly fixed on a ground terminal.
<b>→</b>	<b>Processing:</b> See technical data sheet group 5
→	Stir the colour pigment for about 1 minute into component A by using a suitable agitator, then completely discharge component B into component A and mix for about 1 min. Then change the material into a larger pail and slowly add the filler with the agitator slowly running, mix ~ 1 min. Discharge the mix onto the surface, disperse with toothed trowel no. 25 and immediately purge with a spiked roller in one direction. Good purging with the spiked roller results in additional dispersal of the fibres.  It is absolutely necessary to comply with the material consumption of 2.5 (1.6 mm) to 3.5 (2.0 mm) kg/m² so that conductance values are not being affected.  As conductive fibres are black and copper strips may be visible as shadow on the surface, we recommend using colour chips - ~ 20 g/m² - especially with bright colours – but not more than 50 g/m².  As soiling prevention, the coating must be treated 2 times with 1 Comp. Polymer emulsion before the first utilisation.
	→     →



Technical data sheet date 2019

Technical data sheet date  4 K PLASTIS		P–DF self-	levelling co	ating WE co	onductive
	7101(202	1.5 - 2.0	_	uning WE C	
Product data:		Compone		Compone	ent B:
Viscosity at 23 °C:		~ 180 m		~ 1150 n	
Solids content:			~ 82 % with fill	ers and pigments	
Mix ratio PBW:		250 PE		100 PB	W
Filler addition on comp.	A and comp.B:			50 % fillers on con	mp. A+B
Material consumption:	<b>F</b>			no.23 2.8-3.0 kg/	-
Density (mix):				kg/l	
Pot life at 20°C:			00 g preparation.	Attention! Larger pen pot life (process	
Curing time at 20°C:		Curing times are influenced by air moisture and temperature accessible after ~ 16 h, coatable after ~ 24 h, chargeable after ~48h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days Curing times double with high air moisture (> 70%). Ensure sufficient ventilation immediately after processing. Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception.			
Shelf life:		~ 12 n	nonths at 15°C to 2	25°C storage temp	erature
Colour:			Acc. to co	olour chart	
Cleaner for tools:		W	ater (if no initial c	uring has taken pla	ace)
Steam-diffusion curren	t density:	Test report no. 4376 of Polymer Institute Flörsheim			
Classification as per Diffusion equivalent air l	DIN EN 7783-1: DIN EN 1504-2: layer thickness m:	Rating class II  Klasse $I = <5s_d(m)$ , Klasse $II = >5-50s_d(m)$ , Klasse $III = >50s_d(m)$ Test report no. P 3835-30a of Polymer Institute Flörsheim			
Mechanical properties:  Shore D hardness DIN:	52505	1 est report		Shore D	te Fiorsneim
Adhesive tensile strength				% crack in concret	e
Bending tensile strength		G .	~ 25.1 N/		
Compressive strength DI		Compression str		34.6 N/mm² sampl	le <b>not</b> destroyed
Abrasion resistance DIN		(Taber) ~ 90 mg/1000 U			
Impact resistance DIN		≤ 16 Nm			
Electrostatic properties		DIN EN 1081 / measuring voltage 100 V			
Discharge resistance DIN		between 10 <sup>4</sup> Ohm and 10 <sup>6</sup> Ohm (see test report)  EN 61340 as ESD protection zone and for person earthing			
		EN 61340 as ESI	_	_	arthing
Technical requirements		Results as per DIN EN 61340			
ESD protection zone: Discharge resistance D	< 10 <sup>9</sup> MOhm IN EN 61340-4-1	< 0.1 MOhm bzw.(< 10 <sup>5</sup> Ohm), see test report			
	V max. voltage IN EN 61340-4-5	≤ 100 V max. voltage			
On custo	mer request 12.80	6 kg and 30.735	kg bundles are av	ailable pigmente	d!
Available b	undle sizes 4 K EF	P-DF self-levellin	g coating WE con	nductive 1.5 – 2.0	mm
Artno:	Bundle size:		Bundle co	mposition:	
	Comp. A+B+C+D	Comp.A (resin)	Comp.B (hardener)	Comp.C (filler for 1.5- 2.0 mm)	Comp.D (pigment powder)
052001+RAL NrX27	12.806 kg	3.576 kg	1.43 kg	7.50 kg	0.30 kg
052001+RAL NrX28	30.735 kg	8.585 kg	3.43 kg	18.00 kg	0.72 kg
				3	

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2 F		LASTISTONE® EP – conductive lacquer WE
Application areas:	→	As highly conductive intermediate layer under the EP DF self-levelling coating conductive, for producing electrically conductive floors. In production halls, storage rooms, computer cabinets, department stores, hospitals, on concrete, screed and magnesite as well as anhydrite substrates.  Furthermore in bottling companies, everywhere where combustible gas/air mixtures or flammable liquids are being used or where electrostatic charging of floor surfaces is to be omitted.  Please mind the general advice in catalogue group 1.
Properties:	<b>→ →</b>	EP-conductive lacquer WE is a water-soluble dispersion based on 2K-epoxy resin.  Discharge resistance amounts to 10 <sup>4</sup> to 10 <sup>6</sup> Ohm in cured condition (tested acc. to DIN EN 1081 and DIN EN 61340 5-1 / 4-5)  EP- conductive lacquer WE does not contain solvents (despite water)
Safety data sheets:	<b>→</b>	On our homepage, domain Shop Articles
Resistance:	<b>→</b>	See catalogue group 1 chemical resistance of coating surfaces
Subsurface preparation:	<b>→</b>	See catalogue group 1 General requirements to subsurface
Primer/levelling compound:	<ul><li>→</li><li>→</li><li>→</li></ul>	Treat the surface with 2K EP-DF binding agent as primer according to technical data sheet.  After the primer has cured (48h max), treat the surface with 3K EP-DF fine spatula in case of insufficient substrate evenness.  Now the surface's evenness should be verified once more and intermediate grinding be effected if necessary, as warpings have negative effects on conductivity. Attention!! Do not sand intermediate layers!!!!
Copper strips:	<ul><li>→</li><li>→</li><li>→</li></ul>	Now the self-adhesive copper strips are pasted onto the floor with a distance or grid of ~ 5 * 5 m.  On small surfaces up to ~ 100 m², 2-4 strings in fan shape are sufficient - on the floor with a length of ~ 1 m and drawn up on the wall about 30 cm.  Make sure you have cleaned these areas with acetone or something similar beforehand. Press on the copper strips with a cloth. The free ends of the copper strips need to be drawn up vertically about 30 cm on the walls and connected by an electrician to the ring line or directly fixed on a ground terminal.  (also see application instructions in group 3 on the last page)
Processing EP- conductive lacquer	<b>+ + + + +</b>	Completely empty hardener component (B) into resin component (A) and mix with a suitable agitator for ~ 2 minutes and then let it maturate for 10 min. Then change the mix into another pail and mix for another minute. Crosswise roll the mix out of the pail onto the surface by using a paint roller.  Do not surpass the processing time oft he mixed material of 1.5 hours max at 20°C!! (Shorter at higher temperatures!)  Attention!!  Do not process any longer, even if the material does not show a visible alteration.  After exceeding this time, reactivity of the EP-conductive lacquer is no longer given!  Attention!! Do not sand intermediate layers!!!!  Accessible and coatable with 4K EP-DF self-levelling coating conductive after ~ 16 hours at 20°C (the given times extend at lower substrate temperatures and high air moisture).  After the conductive lacquer has cured, slightly grind with a grinding machine for removing dirt particles or other foreign body inclusions. Afterwards vacuum clean the surface! (Grinding of the cured EP-conductive lacquer may be replaced by repelling with a steel blade.)



# 2 K PLASTISTONE® EP – conductive lacquer WE

We especially point out that the following technical values can only be achieved with components like binding agent / fillers / pigments. Plasti-Chemie International GmbH is not liable for the application of external products as technical properties may strongly deviate then.

Product data 2K EP–conductive lad	cquer WE:	Component A:	Component B:				
Viscosity at 23 °C:		-	00-500 mPas				
Solids content:		~ 42 %					
Mix ratio PBW:		500 PBW 100 PBW					
Mixing time:		2 min., then let mature 10	) min., re-pot and agitate for 1 min.				
Material consumptio	n:	0.12 – 0.15 k	g / m² with paint roller				
Density (mix):			1.15 kg / l				
Pot life at 20°C:			nax. 1.5 h.				
			r, change of characteristics possible)				
Curing time at 20°C:		Curing times are influenced by air moisture and temperature accessible after ~ 16 h, coatable after ~ 24 h, chargeable after ~48h - fully mechanically loadable after 3-5 days, chemically loadable after approx.7 days Curing times double with high air moisture (> 70%). Ensure sufficient ventilation immediately after processing. Ensure sufficient ventilation during processing. After a curing time (at 20°C) of 72 hours, overlaying without grinding (alkaline basic cleaning) is no longer possible. (sanded subsurface are an exception.					
Shelf life:		~ 12 months at 15°C to 25°C storage temperature					
Colour:		Acc.	to colour chart				
Cleaner for tools:		Water (if no initial curing has taken place)					
GISCODE:		RE 1 (epoxy resin products, solvent-free)					
CE Norm as per DIN	EN13813:	CE-label: EN 13813 SR-AR1-B3,3					
Mechanical propertie	es:	Test report no. P 3835-15 of Polymer Institute Flörsheim					
	As intermediate la	ayer of the EP-self-levelling coa	ting conductive				
Electrostatic properti	es:	Measuri	ing voltage 100 V				
Discharge resistance D	IN EN 1081	between 10 <sup>4</sup> Ohm and 10 <sup>6</sup> Ohm					
Discharge resistance DIN EN 61340-5-1		between 10 <sup>4</sup> Ohm and 10 <sup>6</sup> Ohm					
On compliance with	On compliance with material application between $0.12$ to $0.15$ kg/m², the discharge resistance lies between $10^4$ Ohm and $10^6$ Ohm						
	Available bund	le sizes 2 K EP-conductiv	re lacquer WE				
2 -	component – bunc	lle (packed in weights appropr	riate to each other):				
Artno:	Bundle size:	<b>Bundle composition:</b>					
03 25 03 0000-Y83	9.0 kg	Comp.A: 7.50 kg; Comp.B: 1	.50 kg				

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### Assessing the requirement of copper strips

#### First way of laying out the copper strip:

Use case: large, rather square surfaces

Base area 400 m² with 20 metres side length at a time, display copper strip every 5 metres and let it overlap upwards on the edge 30 cm minimum:

6 blanks x 20,6 r.m. = 123,6 r.m. on the floor

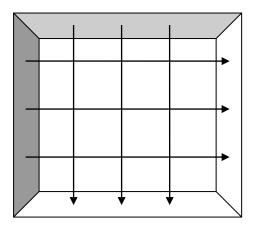
Total demand minimum: 123,6 r.m., corresponds to 7 rolls of copper strip with 20

r.m./roll

10 - 20 % surcharge are recommendable for balancing

possible overlaps or the like

F Rule of thumb for lattice layout: per m<sup>2</sup> 0,5 r.m. of copper strip and you are on the "safe side".



Frequently used ways for connecting the conduction:

- radiators
- frequently CNC machines

Email: info@plasti-chemie.de

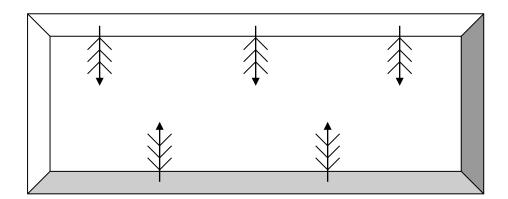
Internet: www.plasti-chemie.de

- sockets

We recommend consulting an electrician for displaying the copper strips as he needs to connect them to the earth.

#### Second way of laying out the copper strip:

Use case: rather smaller surfaces or elongated surfaces



Base area 20 r.m. length x 5 r.m. width =  $100 \text{ m}^2$  (Conductive points should not diverge more than 5 m from each other)

The copper strip can be displayed fan-shaped, as shown above, in different but evenly distributed places. One "conductive arrow" is  $\sim 1$  m (can be elongated) + 30 cm overlap and 6 fans at  $\sim 30$  cm, results in 3.1 r.m. copper strip per conductive arrow, multiplied by 5 = 15.5 r.m. plus  $\sim 30$  % safety margin (we recommend a higher margin) = 20.15 r.m. =  $\sim 1$  roll

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