

Plastifloor® - 800 PUMMA hybrid

High-viscosity, elastomerized PU-methacrylate resin with high low-temperature flexibility. For the production of two-component floor coatings in refrigeration and freezer rooms on concrete substrates. Can also be used as a liquid film and joint filler for construction joints

Application: Plastifloor® 800 is a viscous, elastified PUMMA hybrid resin with exceptionally high low-temperature flexibility. This resin can be used to manufacture membranes and coatings in refrigeration and freezer rooms, as well as for liquid membranes and joint grouting. When used with the PET 800 filler—developed specifically for this resin—the coating remains exceptionally elastic even at low temperatures. As a result, the resin can be used for waterproofing, parking deck coatings, and pool linings, as well as for the seamless integration of roof upstands, drains, and skylights.

Properties: Coatings based on Plastifloor® 800 are characterized by high cold flexibility. Plastifloor® 800 is also used as a membrane layer in Plastifloor® coatings, making it particularly suitable for use in refrigerated and frozen storage rooms. Furthermore, Plastifloor® 800 can also be used as a grouting compound for construction joints with very good cold flexibility in outdoor applications.

Properties of the supplied resin:

Property	Measurement Methods	Approximate value
Running time for 20°C, 6 mm	DIN EN ISO 2431	40 - 60 sec
Density D ²⁰	DIN EN ISO 1183-1	0.95 g/cm ³
Pot life at 20°C		approx. 20 min
Curing		60 – 90 min. at 20°C
Flash point		10 °C
Form of Delivery		Liquid, purple
Shelf life		Store in a dark place at < 20 °C for up to 6 months
Delivery Containers		180 kg Barrel 25 kg, 10 kg Bucket

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Properties of the resin in its cured state at + 20°C :

Property	Measurement Methods	Approximate value
Viscosity at 23°C	DIN 53019	~ 800 – 1300 mPa*s
Elongation at break	DIN EN ISO 527	~ 375 %
Tensile strength	DIN EN ISO 527	~2,8 MPa
E-Modul	DIN EN ISO 527	0,77 MPa
Shore A	DIN EN ISO 7619-1	65 Units
Shore-D	DIN EN ISO 7619-1	15 Units

Activator: Plastifloor® 800 is pre-activated for temperatures ranging from +5°C to +30°C

Initiator/Hardener: Hardener Powder 50W (BPO), temperature-dependent

Thinner: up to 5% by volume of Accelerator 440

Preparation of the mixture:

First, add the hardener and mix until it is completely dissolved (about 30 seconds). Then mix in the solids (about 1–2 minutes) and pour out the entire mixture! Plastifloor® 800 can be mixed with fillers and pigments as described below to create a ready-to-use coating mixture.

Guideline Formulations: 800/1

Membrane layer, 1-2 mm

80,0 GT Plastifloor® 800

20,0 GT Quartz powder 1600

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800/2

Coating, sprinkled
5-8 mm

50,0 GT Plastifloor® 800
24,0 GT Quartz powder 1600
24,0 GT Quartz sand 0,3 - 0,8 mm
2,0 GT Pigment Powder

800/3

Grout Filling

95,0 GT Plastifloor® 800
5,0 GT Pigment Powder

800/4

Waterproofing membrane

60,0 GT Plastifloor® 800
40,0 GT Plastifloor® 800 Filler PET

(Each formulation + 3–4 vol.% of 50W hardener powder, see table)

Processing:

Formulation 800/1 is applied to the substrate—which has been primed with Plastifloor® 112—using metal notched trowels or notched trowels made of MMA-resistant plastic. Formulation 800/2 is spread using a notched squeegee and smoothed with a straight-edged trowel. This formulation is particularly suitable for floors in refrigerated or frozen storage rooms (down to -30 °C). To increase compressive strength and slip resistance, the self-leveling coating is generously sprinkled with quartz sand having a grain size of 0.6–1.2 mm. The excess sand is removed before applying the topcoat.

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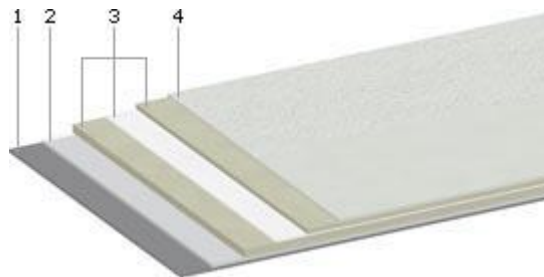
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Surfaces coated with Plastifloor® 800 must be sealed with Plastifloor® 528 PUMMA (clear or pigmented), or another coat of coating must be applied.

Formulation 800/3 is used for grouting pre-primed construction joints in both interior and exterior applications. In this process, special care must be taken to ensure that the grout bonds only to the side walls of the joint, provided that the joint has been carefully primed with Plastifloor® 112.

Formulation 800/4, in which Plastifloor® 800 resin is mixed with 800 PET filler, is used to create highly elastic, waterproof sealing layers on parking decks, balconies, roofs, and terraces. To do this, the mixture of Plastifloor® 800 resin and 800 PET filler is applied to the surface primed with Plastifloor® 112, reinforced with a polyester geotextile, and overcoated wet-on-wet.

System Architecture:



1. Substrate
2. Primer Plastifloor® 112
3. Waterproofing made of Plastifloor® 800 with PET filler, polyester fleece
4. Topcoat of Plastifloor® 528 (optional)

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Pot life and curing times depending on the temperature:

Additional coats of Plastifloor® should not be applied until the previous coats have fully cured.

Temperatur [°C]	Hardener [Vol%]	Hardener [wt%]	Pot life [min]	Curing time [min]
+ 5	5.0	3.3	approx. 15	approx. 70
+ 10	4.0	2.6	approx. 15	approx. 60
+ 20	3.0	2.0	approx. 10	approx. 50
+ 30	2.5	1.6	approx. 5	approx. 45

- Hardener quantity based on Plastifloor® 800 resin
- The temperature readings refer to resin, substrate, and air temperatures

Be sure to stir the resin thoroughly before use.

Attention:

Hardener concentrations below 2.5% by volume can cause the polymerization to fail!

Processing below 0 °C:

Please use Plastifloor® Accelerator 101!
Dosage according to the Plastifloor® 101 product data sheet

Notes:

Apply only to primed surfaces! Ensure good ventilation during application to ensure proper curing. Do not spray in direct sunlight!

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Storage: Methacrylate resins are subject to the handling regulations for highly flammable substances. Plastifloor resin must be stored in a cool place at temperatures between 15 and 20 °C and protected from direct sunlight. Paraffin particles may settle during storage. Therefore, the materials must be thoroughly stirred before use.

Workplace Safety:

Ensure adequate ventilation while working. When handling the product, follow the regulations of the Hazardous Substances Ordinance, the instructions of the State Occupational Safety Committee (LASI), and our safety data sheets.

VbF: A I

GISCODE: RMA 10

HS-Code: 3208 2010

CE	
Plasti Chemie International GmbH • Falgarding 1 • 08223 Falkenstein • Germany	
EN 13813, SR-B2, 0-AR0, 5-IR12	
Plastifloor 800 PUMMA hybrid	
Synthetic resins for interior use (Use in accordance with the latest technical information)	
Response to a fire:	E _n
Wear Resistance (Abrasion Resistance):	AR 0.5
Impact resistance:	IR 12
Tensile strength:	B 2.0

CE- Labeling

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