

Plastifloor® mortar 050F/051 (USA)

Synthetic resin mortar-system

for extremely loaded areas, runway repairs

Application: Plastifloor® 050F/051 is a high quality mortar system for heavy load surfaces. The mortar is applied in a layer thicknesses from 0.2 to 4 mesh (5 to 100 mm) and as a repair mortar for holes in runways.

Properties: Plastifloor® 050F/051 is a 2-component mortar based on methacrylic resin that already contains the necessary filler and hardener. Plastifloor® 050F/051 mortar for a layer thickness of 100 mm can be applied down to -31 °F (-35 °C), for a layer thickness of 2-4 mesh (5 to 10 mm) can be applied down to - 13 °F (-25 °C) and is fully mechanically and chemically loadable after 1 to 3 hours.

Packing: The mortar consists of comp. A (liquid), Plastifloor® 050F and comp. B (powder) Plastifloor® 051

Characteristics:

Property	Measuring method	Approx. value
Compression strength	DIN 1164	~ 95 N/mm ²
Bending strength	DIN 1164	~ 20 N/mm ²
Thermal dilatation	VDE 0304	~ 33 · 10 ⁻⁶ K ⁻¹
Water absorption, 4 days	DIN 53 495	100 mg
Delivery form Plastifloor® 050F	liquid	
Delivery form Plastifloor® 051	powder/filler	
Shelf-life	dry and cool at < 77 °F 6 months minimum	

Processing hints:

After appropriate preparation of the substrate, 6.06 lb (2.75 kg) of Plastifloor® 050F (= hardener) and 55.12 lb (25 kg) Plastifloor® 051 (= powder) are mixed intensively (mixing time is approx. 2-3 minutes) according to the required processing texture. The viscous mortar is then applied directly onto the surface that has been primed with Plastifloor® 112 and evened out with a smoothing trowel. The working time at 68 °F (20 °C) is about 10 to 15 minutes. Curing time is approx. 1 to 1.5 hours. Plastifloor® 050F/051 can be thickened with Plastifloor® 540/H (e.g. for coves). Plastifloor® 050F/051 must be primed with Plastifloor® 112 or 118 before additional coating. For layer thicknesses of more than 2 mesh (10 mm), the mortar can be additionally thinned with fillers – size 5-10 mesh (2.0 to 4.0 mm) and/or 3-5 mesh (4.0 to 8.0 mm) and/or 1-3 mesh (8.0 mm to 16.0 mm).

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Mixing:



Mix the mortar with an agitator. Put comp. A + B into a 30l pail and mix thoroughly for 2 minutes- done.

Standard values:

a) Standard quantity	6.1 lb (2.75 kg)	Plastifloor® 050F
	55.12 lb (25.00 kg)	Plastifloor® 051
b) with grain mix 3-10 mesh (2 – 8 mm)	6.1 lb (2.75 kg)	Plastifloor® 050F
	55.12 lb (25.00 kg)	Plastifloor® 051
	6.00 kg	filler 3-10 mesh (2 – 8 mm)
c) with grain mix 1-10 mesh (2- 16 mm)	6.1 lb (2.75 kg)	Plastifloor® 050F
	55.12 lb (25.00 kg)	Plastifloor® 051
	13.23 lb (6.00 kg)	filler 5-10 mesh (2 – 4 mm)
	19.84 lb (9.00 kg)	filler 3-5 mesh (4 – 8 mm)
	22..05 lb (10.00 kg)	filler 1-3 mesh (8 – 16 mm)

Examples:



Liquid texture or mortar-like texture are individually adjustable

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Material consumption/mm:

4 mesh (5 mm) mortar coat Plastifloor® 050F/051	~ 2.05 lb/ft ² (10 kg/m ²)
2 mesh (10 mm) mortar coat Plastifloor® 050F/051	~ 4.1 lb/ft ² (20 kg/m ²)
from 2 mesh (10 mm) mortar coat Plastifloor® 050F/051 with 3-10 mesh (2 to 8 mm) filler mixtures	~ 4.51 lb/ft ² (22 kg/m ²)

Thicker layers can be achieved by repeated application, in order to avoid tensions in the mortar!

System for low temperatures:

The 050F/51 mortar system is also available in a special formulation suitable for use at temperatures below -13 °F(- 25°C) (e.g. for repairs in cold stores or on outdoor runways in frosty conditions).

The surface should always be dry and free of ice!

Please contact us for more information if required.

Hints:

Do not continue coating until the previous coat is completely cured.

Storage:

The handling regulations for highly flammable materials apply to methacrylate – resins. Plastifloor® resins should be stored cool, away from direct sunlight and preferably at temperatures between 59 - 68 °F (15 – 20 °C). During storage, paraffin particles and fillers may precipitate. Therefore, containers must be well agitated before use. Please refer to our Safety Data Sheets.

Industrial safety:

Provide adequate ventilation during work. During processing, observe the regulations of the Hazardous Substances Ordinance, the instructions of the Federal State Committee for Occupational Safety and Safety Technology (LASI), and our safety data sheets.

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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® 050F/051	
Synthetic resins for internal uses (Application in accordance with the newest technical information)	
Reaction to fire:	E _{fl}
Wear resistance (Abrasion Resistance):	AR 0.5
Impact resistance:	IR 12
Tensile bond strength:	B 2.0

CE-labelling

data concerning our products and devices as well as concerning our data and procedures are based on an extensive research work and an application technology experience. We obtain these results, with which we do not take over adhesion going beyond the respective single contract, in word and writing after best knowledge, reserve ourselves we however technical changes in the course of the product development. Beyond that our application technology service stands when desired for large consultation as well as for co-operation with the solution manufacturing and application technology problems for order. That does not relieve the user however to examine our data and recommendations before their use responsible for the own use. That applies - particularly for deliveries to foreign markets - also regarding the keeping of patent rights third as well as for applications and procedures, which are not expressly in writing indicated by us. The case of loss our adhesion is limited to indemnifications of same extent, as they plan our general terms of delivery and sales with lack of quality.