Plastifloor®050/051 mortar (USA)

Synthetic resin mortar-system
for extremely loaded areas

PLASTI CHEMIE International GmbH

Application: Plastifloor® 050/051 is a high-quality mortar system for heavy-duty surfaces. It is applied at a layer thickness of 0.20-0.39 in. (5 to 10 mm) and can also be used to repair holes and damaged areas.

Properties: Plastifloor® 050/051 is a two-component mortar based on methacrylic resin and contains the required filler and hardener. Plastifloor® 050/051 can be applied at temperatures ass low as 14°F (–10 °C) and is ready for full mechanical and chemical loading after 1-3 hours.

Packaging:



Mortar consists of comp. A (liquid), Plastifloor® 050
and comp. B (powder) Plastifloor® 051

Technical Characteristics:

Property	Test method	Approx. value
Compressive Strength	DIN 1164	~ 13,780 psi (95 N/mm^2)
Flexural Strength	DIN 1164	~ 2,900 psi (20 N/mm^2)
Modulus of Elasticity	DIN 53457	~986 ksi (6800 N/mm^2)
Coefficient of Thermal Expansion	VDE 0304	~ 33 · 10^{-6} K^{-1}
Water absorption, 4 Days	DIN 53 495	0 mg
Plastifloor® 050-Form	liquid	
Plastifloor® 051-Form	Powder/Filler	
Shelf life	dark at < 68 °F 6 months minimum	

Plasti Chemie International GmbH
Falgardring 1
D – 08223 Falkenstein / Germany

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Notes:

After proper substrate preparation, 5.51 lb (2.5 kg) of Plastifloor® 050 (Component A) and 55.12 lb (25 kg) of Plastifloor® 051 (Component B, powder) are thoroughly mixed for approximately 2 minutes until a uniform consistency is achieved. The mortal is then applied directly to the surface previously primed with Plastifloor® 112 and evenly distributed using a smoothing trowel. The working time at 68 °F (20 °C) is approximately 10-15 minutes. The cure time is approx. 1-1.5 hours. Plastifloor® 050/051 can be made thixotropic by adding Plastifloor® 540/H (e.g. for coves).Before applying an additional coat, Plastifloor® 050/051 must be primed with Plastifloor® 112. For layer thicknesses greater than 0.39 in. (10 mm), the mortar can be additional filler with a particle size of 0.08-0.16 in. (2.0 to 4.0 mm) or 0.16-0.31 in. (4.0 to 8.0 mm).

Mixing:



Mix the mortal using a mechanical mixer.
Place Components A und B into an 8 gal (30 L) pail mand mix thoroughly for approximately 2 minutes.

Mixing rations:

Standard Mix	5.51 lb (2.5 kg)	Plastifloor® 050
	55.12 lb (25 kg)	Plastifloor® 051
with grain mix 0.08-0.31 in. (2 - 8 mm)	5.51 lb (2.5 kg)	Plastifloor® 050
	55.12 lb (25 kg)	Plastifloor® 051
	13.23 lb (6 kg)	Filler 0.08-031 in. (2-8 mm)

Examples:



Liquid texture or mortar-like texture are individually adjustable

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Material Consumption:

Layer Trickness/System	Approx. Consumption
0.20 in. (5 mm) mortar coat Plastifloor® 050/051	~ 2.1 lb/ft^2 (10 kg/m^2)
0.39 in (10 mm) mortar coat Plastifloor® 050/051	~ 4.1 lb/ft^2 (20 kg/m^2)
From 0.39 in (10 mm), Plastifloor® 050/051 mortal with 0.08-0.31 in. (2 - 8 mm) filler	~ 4.5 lb/ft^2 (22 kg/m^2)

Thicker layers can be achieved by applying multiple coats to minimize internal stresses in the mortal.

Low-Temperature System:

Plastifloor® 050/051 is also available in a special formulation for applications at temperatures below 14°F (-10°C), such as repairs in cold-storage facilities or exterior repairs during freezing conditions.

The surface must be dry and free of ice.

Please contact us for additional information.

Important Notes: Do not apply the next coat until the previous coat has fully cured.

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Storage: Follow all applicable regulations for the handling and storage of flammable materials. Plastifloor® 050 resins must be stored in a cool place, protected from direct sunlight, preferably at 59-68 °F (15-20 °C). During storage the paraffin dissolved in the binding agent may precipitate. Stir the resin thoroughly before use. Please follow the instructions in our Safety Data Sheet.

Industrial safety:

Provide adequate ventilation during application.Follow all applicable regulations for the handling of hazardous materials and observe the safety precautions provided in the current Safety Data Sheet (SDS)

HS-Code: 3208 2010

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.

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