Plastifloor® mortar 050F/051 (USA)

Synthetic Resin Mortar System
for Heavy-Duty Applications and Runway Repairs

Application:

Plastifloor® 050F/051 is a high-quality mortar system for heavy-duty surfaces. The mortar can be applied at layer thicknesses ranging from 0.20 to 3.94 in. (5 to 100 mm) and can also be used as a repair mortar for holes and damaged areas in runways.

Properties:

Plastifloor® 050F/051 is a two-component mortar based on methacrylic resin and contains the required filler and hardener. For layer thicknesses of 3.94 in. (100 mm), Plastifloor® 050F/051 can be applied at temperatures as low as – 13°F (-35 °c). For layer thicknesses of 0.20-0.39 in. (5-10 mm), it can be applied at temperatures as low as -13°F (-25°c). The mortar is ready for full mechanical and chemical loading after 1-3 hours.

Packaging:

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

Characteristics:

Property	Test Method	Approx. value
Compressive strength	DIN EN ISO 604	~13,800 psi(95 N/mm^2)
Flexural strength	DIN EN ISO 178	~ 2,900 psi (20 N/mm^2)
Coefficient of Thermal Expansion	DIN EN ISO 11359-2	~ 33 · 10^{-6} K^{-1}
Water Absorption, 4 Days	DIN EN ISO 53 495	100 mg
Plastifloor® 050F- Form	Liquid	
Plastifloor® 051-Form	Powder/Filler	
Shelf Life	dry and cool at < 77 °F 6 months minimum	

Processing Hints:

After proper substrate preparation, 6.06 lb (2.75 kg) of Plastifloor® 050F (hardener) and 55.12 lb (25 kg) of Plastifloor® 051 (powder) are thoroughly mixed for approximately (2-3 minutes) until the desired consistency is achieved. The viscous mortar is then applied directly to the surface previously primed with Plastifloor® 112 or Plastifloor® 118 and evenly distributed using a smoothing trowel. The working time at 68 °F (20 °C) is approximately 10-15 minutes. The cure time is approximately 1-1.5 hours. Plastifloor® 050F/051 can be made thixotropic by adding Plastifloor® 540/H (e.g., for coves). Before applying an additional coating, Plastifloor® 050F/051 must be primed with Plastifloor® 112 or 118. For layer thicknesses greater than 0.39 in. (10 mm), the mortar can be extended with additional filler with particle sizes of 0.08-0.16 in. (2-4 mm) ,0.16-0.31 in. (4-8 mm), and/or 0.31-0.63 in. (8-16 mm).

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Mixing:



Mix the mortar with an agitator. Put comp. A + B
into a 8 gal (30l) pail and mix thoroughly for 2 minutes- done.

Standard Mix Proportions:

a) Standard Mix	6.06 lb (2.75 kg)	Plastifloor® 050F
	55.12 lb (25.00 kg)	Plastifloor® 051
b) with 0.08-0.31 in. (2 – 8 mm) Filler	6.06 lb (2.75 kg)	Plastifloor® 050F
	55.12 lb (25.00 kg)	Plastifloor® 051
	13.23 lb (6.00 kg)	Filler, 0.08-0.31 in. (2 – 8 mm)
c) with 0.08-0.63 in. (2- 16 mm) Filler	6.06 lb (2.75 kg)	Plastifloor® 050F
	55.12 lb (25.00 kg)	Plastifloor® 051
	13.23 lb (6.00 kg)	Filler 0.08-0.16 in. (2 – 4 mm)
	19.84 lb (9.00 kg)	Filler 0.16-0.31 in. (4 – 8 mm)
	22.05 lb (10.00 kg)	Filler 0.31-0.63 in. (8 – 16 mm)

Examples:







The consistency can be adjusted from a flowable to a mortar-like consistency, depending on the application

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Material Consumption:

Application	Approx Consumption
0.20 in. (5 mm) Plastifloor® 050F/051 mortar layer	~ 2.05 lb/ft^2 (10 kg/m^2)
0.39 in. (10 mm) Plastifloor® 050F/051 mortar layer	~ 4.10 lb/ft^2 (20 kg/m^2)
0.39 in. (10 mm) Plastifloor® 050F/051 mortal layer with 0.08-0.31 in. (2 to 8 mm) filler blend	~ 4.51 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® 050F/051 is also available in a special formulation suitable for application at temperatures below -13 °F(- 25°C), for example, for repairs in cold-storage facilities or on outdoor runways under freezing conditions.

The substrate must always be dry and free of ice.

Please contact us for additional information.

Application Note: Do not apply an additional coat until the previous coat hast fully cured

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Storage:

Plastifloor® resins should be stored in a cool place, protected from direct sunlight, preferably at 59 - 68 °F (15 – 20 °C). During storage, paraffin particles and fillers may precipitate. Thoroughly agitate the container before use. Follow all applicable requirements for the storage and handling of flammable materials and refer to the current Safety Data Sheet (SDS) for additional safety and handling information.

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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