

TECHNICAL DATA: EP 101FS

EP 101FS 2 Component Clear Epoxy

Mix Ratio

By Weight 2 Part A : 1 Part B

Application Conditions and Temperature:

Minimum 10 °C air and substrate temperature. Humidity not to exceed 75%

Working Time:

Temperature	10 °C	20 °C	30 °C
Time	60 minutes	30 minutes	15 minutes

Cure Schedule:

Temperature	10 °C	20 °C	30 °C
Light Foot Traffic	18 - 22 hrs	8 - 11 hrs	6 - 8 hrs
Tack free:	6 - 8 hours @ 20 °C		
Mechanical Load:	2 – 3 days @ 20 °C		
Full Chemical Resistance:	7 days @ 20 °C		
Pot Life :	20 minutes @ 20 °C		

Re Coat window:

After curing but within 48 hours @ 20°C

Yield as a clear resin coating at 0.5 – 0.8 kg/m² is 2.0 m² to 1.25 m²

Yield as a clear resin scatter coating at 0.4 – 0.8 kg/m² is 2.5 m² to 1.25 m²

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Shelf Life: 12 months in unopened containers.

Storage: Store product at normal room temperature, before using. Storage should be between 10 °C and 20 °C. Any part used kits should be completely re sealed with tape and used as soon as possible.

Product Description:

- EP 101FS is a high quality, solvent free, 2 component, clear gloss Epoxy.
- EP 101FS can be used as a clear seal coat on decorative quartz and PVC Flake finishes.
- It can also be used as a binding agent for Decorative Quartz Epoxy Mortars. For this application the Quartz is usually bonded with 8 – 12% of the product.
- EP 101FS has a low to medium viscosity and is formulated to give good intermediate coat adhesion.
- EP 101FS sets to a colourless hard synthetic finish and exhibits low yellowing.

Product features

- Solvent free
- Self-Levelling
- Colourless gloss finish
- Safe and reliable
- Excellent adhesion
- Long working life
- Resistant to Hydrolysis and Saponification
- Low Yellowing
- Water and Chemical Resistant
- Nonyl Phenol Free

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- Sealing Clear Coat
- As a binder for decorative quartz mortars

Surface Preparation:

Prior to application we recommend that the substrate is mechanically prepared to ensure that all dirt, oil, dust, foreign contaminants, laitance and any previous poorly adhered coatings are removed to ensure a trouble free bond to the substrate. The substrate to be coated has to be levelled, dry, free of dust and must have adequate tensile and compressive strength. We recommend the use of Primers EP 70 and EP 72 (please refer to the TDS's)

Mixing

EP 101FS is a two component product. Decant Part B, the hardener into part A then thoroughly mix for a minimum of two minutes using a low speed drill and mixing paddle, to ensure uniform consistency. Avoid air entraining the product. Always ensure thorough mixing as improper mixing may result in product failure. We recommend that the mixed product is decanted into a clean container and mixed briefly to avoid the chance of un-mixed product on container walls effecting curing. If part of a kit is to be used both parts should be premixed before carefully measuring out the required weight of product.

For decorative mortars we recommend the use of a forced action mixer. First place the aggregate in the mixer then while the mixer is running add the **pre mixed resin**. The resin must be fully mixed in and the correct consistency achieved. Each mix must be mixed for the same time to achieve colour consistency.

Build up coat options:

As a sealer or to encapsulate a pigment.

1. Prime the prepared substrate with EP 70 or EP 72 at recommended coverage rate (refer to TDS).
2. Optional Scratch coat with EP 70 mixed with fine sieved dry sand (refer to EP 70 TDS).
3. Apply coat of EP 104 at recommended coverage rate.
4. Apply coat of EP 101 at recommended coverage rate incorporating the desired coloured pigment.
5. Apply any additional high light colours immediately and work in the colour with a notched squeegee.
6. Roll the surface to ensure even spreading of product.
7. Apply coat of APU 43 High Wear Satin Gloss Urethane, APU 49 High Gloss Urethane or APU 46 Matt Urethane at recommended coverage rate (refer to TDS).
8. Alternatively apply 4 – 5 coats of a high quality floor polish once the surface is fully cured.
9. **The recoat windows and preparation guidelines must be strictly adhered to.**

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1. Prime the prepared substrate with EP 70 or EP 72 at recommended coverage rate (refer to TDS).
2. Apply the decorative coating at recommended coverage rate.
3. Apply coat of APU 43 High Wear Satin Gloss Urethane, APU 49 High Gloss Urethane or APU 46 Matt Urethane at recommended coverage rate (refer to TDS).
4. Alternatively apply APU 85 Poly Aspartic at recommended coverage rates (refer to TDS).
5. **The recoat windows and preparation guidelines must be strictly adhered to.**

Damp surface and or Vapour pressure present.

1. Prime the prepared substrate with EP 72 Vapour Barrier at recommended coverage rate (refer to EP 72 TDS).
2. Prime again with EP 72 Vapour Barrier. Both coats together must achieve a minimum of 900 g/m² (refer to EP 72 TDS)

These two stages should be considered as a separate process to address the moisture in the slab.

Note: These are approximate volumes only and depend on the desired consistency and texture.

Application


- Immediately after mixing pour the product onto the prepared slab at the approximate weight per area of floor, for the desired application. Then with a notched trowel, squeegee and / or roller pull out an even coat on to the prepared surface.
- Re roll at right angles to the original application to be sure of even distribution of the product.
- Always maintain a wet edge.
- Maintain temperatures and humidity within the recommended ranges during the application and during the curing process. **Before application the product must be at the same temperature as the room in which it will be applied. The floor temperature must not be any more than 3 °C lower than the room temperature unless this will be at dew point.** If a dew point situation occurs the product may spot and lead to possible failure or compromised product characteristics.

PRODUCT PERFORMANCE DATA

Shore D Hardness	75
Viscosity	Mixed Parts 650 mpa

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Solids Content	>99%
Density	1.07 kg per/ litre
Water Absorption	<0.2 % by weight
Compressive Strength	70 N/mm ²
Bending Tensile Strength	25 N/mm ²

	
Achtis Group 1 Peryton Park, Peryton Way Europarc, Grimsby N E Lincs DN37 9TT UK	
13	
EP 101	
DIN EN 13813: 2003-01	
Synthetic resin screed mortar DIN EN 13813: SR-B1.5-AR0.5-IR5	
Flammability	Efl-s1
Emission of corrosive Substances	SR
Wear resistance to BCA	BCA AR 0.5

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Adhesive tensile strength	B1.5
Impact resistance	IR 5

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