

TECHNICAL DATA: EP 70

EP 70 2 Component All Purpose Epoxy Primer

Mix Ratio

Two Parts A to One Part B 1 **by Weight**

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	55 minutes	25 minutes	15 minutes

Cure Schedule:

Temperature	10 °C	20 °C	30 °C
Light Foot Traffic	12 – 14 hrs	6 - 8 hrs	5 - 6 hrs
Tack free	5 - 6 hours		
Mechanical Load	2 – 3 days		
Full Chemical Resistance	7 days		
Pot Life	20 minutes @ 20 °C		

Re Coat window:

After curing but within 48 hours at 20 °C

1 kg Yield as a primer at 0.3 – 0.4 kg/m² is 3.3m² to 2.5m²

Package Size: Available in 10kg and 30kg units

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.

The information contained in this technical data sheet is based on our previous experience and knowledge. It is not possible to consider every single case. Please seek technical advice for specific projects. We guarantee our product is manufactured to the specifications as stated herein. Beyond that no warranty is made, expressed or implied. We do not assume responsibility for work not carried out by us. We recommend that on-site-trials be conducted. Our "General Terms and Conditions" apply. This data sheet supersedes all previous data sheets.

Product Description:

- EP 70 is a high quality, solvent free, 2 component clear Epoxy Primer.
- EP 70 can be used in new and old buildings as a primer, scratch coat, or levelling mortar.
- EP 70 has a low viscosity and is formulated to penetrate the substrate to give a high strength base for subsequent coatings.
- We strongly recommend that EP 70 is used as the primer for our systems.

Product features

- Solvent free
- Self-Levelling
- Safe and reliable
- Excellent adhesion
- Long working life
- Resistant to Hydrolysis and Saponification
- Nonyl Phenol Free

Areas of Use:

- Base coats
- Scratch coats
- Levelling coats
- Epoxy resin mortar

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 and free of dust and must have adequate tensile and compressive strength.

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Mixing

EP 70 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 measuring out the required weight of product.

Scratch Coats

1.0 kg of EP 70 pre mixed resin add 0.5 kg – 0.8 kg of fine dry sand.

Epoxy Resin Mortar

1.0 kg of EP 70 pre mixed resin add 8.0 kg – 12 kg of fine dry sand.

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. Then with a notched trowel, squeegee or roller pull out an even closed sealing coat on to the prepared surface. On highly absorbent surfaces a second coat may be required.
- Always maintain a wet edge.
- For increased adhesion of subsequent coats the primer may be lightly scattered with fine dry 0.3 – 0.8mm sand.
- For scratch coats the product can be applied with a notched trowel or squeegee.
- Priming and smoothing of rough substrates can be carried out in one application by adding sand at 0.5 kg / 1 kg of resin. This can be applied with a notched trowel or squeegee at a rate of 0.8 to 1.0 kg / m²
- 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. The surface must be dry before the application of this product.

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PRODUCT PERFORMANCE DATA

Shore D Hardness	80
Viscosity:	Mixed Parts 800 mpas
>99%	
Density:	1.1 kg per/ litre
Adhesive Tensile Strength	>1.5 N/mm ²
Compressive Strength	80 N/mm ²
Bending Tensile Strength	35 N/mm ²

	
Achtis Group 1 Peryton Park, Peryton Way Europarc, Grimsby N E Lincs DN37 9TT UK	
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EP 70	
EN 13813-SR-B1.5-AR0.5-IR5	
Synthetic resin screed mortar	
Fire Behaviour	NPD
Emission of corrosive	SR
Abrasion Resistance to BCA	AR 0.5
Adhesive tensile strength	B 1.5
Impact resistance	IR 5
Subsonic noise	NPD
Sound absorption	NPD
Thermal insulation	NPD
Chemical resistance	NPD

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