

## TECHNICAL DATA: EP 70FSP

### EP 70FSP 2 Component Rapid Setting Epoxy Resin

#### Mix Ratio

A: B 100:70 By **Weight**

#### Application Conditions and Temperature:

Minimum 0 °C air and substrate temperature. Humidity not to exceed 75%

#### Working Time:

Temperature	10 °C	20 °C	30 °C
Time	10 minutes	7 minutes	5 minutes

#### Cure Schedule:

Temperature	10 °C	20 °C	30 °C
Light Foot Traffic	100 minutes	60 minutes	40 minutes
Tack free	50 minutes @ 20 °C		
Mechanical Load	24 – 36 hours @ 20 °C		
Full Chemical Resistance	7 days		
Pot Life	5 minutes @ 20 °C		

#### Re Coat window:

While wet or after curing but within 16 hours at 20 °C

**1 kg Yield as a primer at 0.3 – 0.4 kg/m<sup>2</sup>** is 3.3m<sup>2</sup> to 2.5m<sup>2</sup>

**Package Size:** Available in 1kg and 15kg 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.

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### **Product Description:**

- EP 70FSP is a high quality, Rapid Curing, solvent free, 2 component clear Epoxy.
- EP 70FSP can be used as a primer on small areas, scratch coat, levelling or repair mortar.
- EP 70FSP has a medium viscosity and is formulated to penetrate the substrate to give a high strength base for subsequent coatings.

### **Product features**

- Solvent free
- Safe and reliable
- Excellent adhesion
- Rapid return to work
- Time saving
- Resistant to Hydrolysis and Saponification
- Nonyl Phenol Free
- Low Emission
- MXDA Free

### **Areas of Use:**

- Base coats
- Scratch coats
- Levelling coats
- Epoxy resin mortar
- Adhesion of cove bases and fixings

### **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, with a minimum surface strength of 1.5 N/mm<sup>2</sup>

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## Mixing

EP 70FSP 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 70FSP pre mixed resin add 0.5 kg – 1.0 kg of fine dry scratch coat sand.

## Epoxy Resin Mortar

1.0 kg of EP 70FSP pre mixed resin add 5 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 / m<sup>2</sup>
- 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.


## Safety Information

- Before application of any resin the appropriate SDS must be read and strictly adhered to. Resins contain sensitising agents which can lead to severe allergic reactions.
- The EP 70FSP range is formulated without MXDA and several other of the most severe agents for sensitisation, however all safety precautions as outlined in the SDS must be carried out.

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### PRODUCT PERFORMANCE DATA

<b>Shore D Hardness</b>	72
<b>Viscosity:</b>	Mixed Parts 1750 mpas
<b>Solids Content</b>	> 99 %
<b>Density:</b>	1.2 kg per/ litre
<b>Adhesive Tensile Strength</b>	>1.5 N/mm <sup>2</sup>
<b>Compressive Strength</b>	> 72 N/mm <sup>2</sup>
<b>Bending Tensile Strength</b>	> 30 N/mm <sup>2</sup>

	
<b>Achtis Group</b> <b>Peryton Park, Peryton Way</b> <b>Europarc, Grimsby DN37 9TL</b>	
<b>13</b>	
EP 70FSP	
<b>EN 13813</b>	
Synthetic resin screed mortar	
Fire Behaviour	E <sub>fl</sub> - s1
Emission of corrosive Substances	SR
Abrasion Resistance to BCA	AR 0.5
Adhesive tensile strength	B 1.5
Impact resistance	IR 4
Subsonic noise	NPD
Sound absorption	NPD
Thermal insulation	NPD
Chemical resistance	NPD

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