

### E45F

- Basic System Construction Chemicals -



The Epoxy Laminating Resin System E45F is an unfilled, low-viscous combination of resin and hardener with medium working time (pot life).

#### Properties and field of application:

Highly fillable, good flowability  
Residual flexible, highly resistant  
Odorless, resistant to chemicals

Surface sealer / water barrier  
Basis for filled levelling masses, polymer concrete

Frictional bonding of cracks and joints in screeds and concrete  
Repairing defects in mineral floors

#### Instructions for use:

Mix Ratio	100 parts resin : 60 parts hardener (by weight) 100 parts resin : 66 parts hardener (by volume)
Mixed Viscosity	low viscous
Working Time (pot life) 20°C	25 min (100g)
Working Time (pot life) 20°C	30 min (1 kg)
Demouldable after	48 h (at 20°C)
Full Cure	7 d (20°C)
Working Temperature	15 °C – 25 °C

Application as:	filler:	Mix ratio:
Surface sealer	-	Unfilled resin system
Levelling mass	Quartz filler	1 part filler : 1 part resin system
mortar	Quartz filler	2 parts filler : 1 part resin system
filler	Quartz filler	10 parts filler : 1 part resin system
colouring	Colour pigments	As required

#### Safety Instructions:

The safety instructions are to be taken from the respective containers. Do not allow children to handle. Prevent inhalation of the fumes and contact with the bare skin. Wear suitable protective gloves and safety goggles. Do not eat, drink or smoke while using. During the hardening process, energy can be released in the form of heat, hence a cooling/heat exchanging should be provided in order to prevent hot spots. Only mix the components in the recommended proportions in accordance with the instructions.

### Application Instructions:

We recommend to perform preliminary tests to check the suitability for the particular type of application. The system should only be used in the mentioned temperature conditions. The relative air humidity should not be above 70%. The surface to be treated must be clean and dust-free. Mix the individual components. In respect of the safety instructions the epoxy resin and hardener should be mixed in a suitable mixing vessel in accordance with characteristics given in the data sheet. Deviating from the mixing recommendations can lead to incomplete hardening and through that to a loss of performance. Ensure that the edges are well mixed using a stirring stick or a propeller type mixer. Localized signs of smear formation indicate insufficient stirring and mixing of the components. Larger amounts (more than 100g) and higher temperatures (higher than 20°C) reduce the working time. Mixtures which rise above 40°C in the mixing vessel, should not be used any further because curing is associated with property losses. Temperature increases are delayed by pouring the mixture onto the surface

#### Application as primer or impregnation:

Spread the mixture evenly with a paint roller or a brush onto the surface to obtain a closed layer.

If following layers are applied on a time delayed basis (>24 h), quartz sand must be spreaded into the fresh primer (< 1mm) for an improved adhesion. Avoid excess sanding.

To achieve an impregnation effect, solvent-based thinner XB is added to the mixed system at the recommended mixing ratio. Solvents are flammable! Safety instructions are to be taken from the containers.

#### Application as coating:

Apply or pour the system within 24 hours after priming.

Stir filler and color pigments into the mixed system according to the desired consistency. If necessary smooth with a suitable device. If required, the remaining sticky surface is sprinkled with the filler used in excess to achieve non-slip surfaces. When the system has hardened, sweep or vacuum off the uncured filler.

### Cleaning of work tools:

Unhardened product remains can be removed from tools by means of acetone. Tools should be given a good airing after being cleaned with this solvent, in order to prevent the solvent from being retained until the tool is used again.

Hardened remains can only be removed by mechanical means, e.g. by sanding.

### Storage:

Threaded container tops should be kept free of material remains. Do not exchange tops/lids. Close opened containers tightly. Store in a cool and dry place. With optimal storage conditions, shelf-life should be beyond 12 months.

### Disposal:

Do not allow to enter drains, waterways or soil. Uncured product residues are hazardous waste. The cured system is construction site waste / household waste.

### Further Information:

Further application information can be obtained from our website, by selecting Product Info on the homepage. Please do not hesitate to contact us by telephone if you have further queries.

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