

EPOFLOOR PRIMEL

Two component, Low Viscosity, Solvent Free Epoxy Resin Primer

AREA OF USE

It's used as primer before interior concrete surfaces, cement based screeds, all kinds of epoxy and polyurethane coatings.

It's used as binder for epoxy based repair mortars and screeds.

Interior surfaces desired to be waterproof, non-dusting, chemical and mechanical resistant as final layer thin coating.

PROPERTIES

It's used indoors.

A high rate of filling can enter into it.

It has high chemical and mechanical resistance.

Easy to apply.

It's fluid.

It's economic.

Liquid impermeable.

Bright final layer coating is obtained.

Slip resistant surface can be obtained.

Volatile organic material (VOC solvent) free.

Low viscosity, thus it can easily penetrate to capillary gaps.

It has high adhesion strength.

Waiting time between coats are short.

It can be used as multipurpose.

APPLICATION**SURFACE PREPARATION**

Concrete sub-surfaces may be free from all foreign materials such as clean, dry and all kinds of dirt, oil, grease, coating and surface treatments. In addition, should also have strong and sufficient compressive strength (minimum 25 N/mm²), the tensile strength should also be at least 1,5 N/mm².

Concrete sub-surfaces should be prepared by using abrasive equipments and by removing cement slurry in order to obtain open porous structure. Weak concrete parts should be removed from surface, bird's eye gaps and holes should be completely closed. Sub-surface repairs, filling the gaps and leveling the surface are made by the mortar obtaining by mixture of 0,1 mm- 0,3 mm silica sand and EPOFLOOR PRIMEL plaster.

Concrete and screed surfaces should be primed and leveled in order to obtain an smooth surface. Heights on the surface should be leveled by abrading. All dust and loose particles should be removed from the surface preferably by brush and/or vacuum cleaner.

APPLICATION CONDITIONS

Surface moisture content must be less than 4%.

Test method: CM measurement or Stove-drying method (moisture meter)

Relative humidity must not exceed 80%.

Care should be taken to dew and condensation.

Dew and water vapor condensation damage the coating on untreated or new treaded floor, cause bubbles to form. To prevent this, temperature of the surface and uncured floor must be at least 3 °C more than dew point.

Surface Temperature: Minimum +10 °C, maximum +30 °C

Ambient Temperature: Minimum +10 °C, maximum +30 °C

Material Temperature: Minimum +10 °C, maximum +30 °C

PREPARATION AND APPLICATION OF MORTAR

After pouring B component into A component, until obtaining a homogeneous mixture, they're stirred for 2-3 min. by a mixer with 300-400 rpm. Then by 0,1-0,4 mm silica sand and if necessary other fillings are added and until obtaining a homogeneous mixture, it's stirred again about 2-3 min. In order to make sure that the mixture is fully prepared, materials are transferred into another container and stirred again for 1 minute. In order to minimize air entrainment, over stirring must be avoided. Before application, it must be confirmed that surface moisture content is below 4% and dew won't be appear.

As plaster: EPOFLOOR PRIMEL must applied by brush, roller or rabble. It must be ensured that the application is made on whole surface void-free.

As Leveling Mortar: The rough surfaces need to be leveled first. Leveling mortar should be applied according to the necessary thickness with a trowel/rabble.

As Mortar Coating/Repair Mortar: Mortar must be correctly applied on still adhesive liner by using leveling boards. After a short delay, it must be compressed by a trowel or teflon coated planer machine (usually 20-90 rot/min) and surface must be leveled.

SYSTEM STRUCTURE

Plaster:

Low / medium porosity concrete: 1 coat x EPOFLOOR PRIMEL special sand mixture

High porosity concrete: 2 coats x EPOFLOOR PRIMEL special sand mixture

Thin Leveling Mortar (surface roughness < 1 mm): 1 coat x EPOFLOOR PRIMEL + Silica sand (0,1 mm – 0,3 mm)

Screed Mortar/ Repair Mortar: 15 mm – 20 mm thickness.

CONSUMPTION

Coating System	Product	Waste
Primer	EPOFLOOR PRİMEL	~ 0,2 kg/m ²
Thin Leveling Mortar (Surface roughness <1 mm)	1 by unit weight EPOFLOOR PRİMEL + 0,5 unit weight quartz sand (0,1 mm – 3 mm)	~ 1,4 kg/m ² /mm
Screed mortar (5 mm - 20 mm thickness) / Repair Mortar	1 unit weight EPOFLOOR PRİMEL + 9 unit weight special quartz sand mixture	~ 2,2 kg/m ² /mm

These values are theoretical and don't include additional material requirement depending on surface porosity, surface profile, differences in level and wastage.

TECHNICAL DATA

Brightness and Colour	Transparent, yellowish
Density	1,1 gr/cm ³
Percent of Total Solids	% 100
Thinning	Unthinned
Compressive Strength	~ 95 N/mm ² (28 days / 23 °C)
Flexural Tensile Strength	~ 30 N/mm ² (28 days / 23 °C)
Bond Strength	> 1,5 N/mm ² (by breaking off the concrete)
Shore D Hardness	~ 84 (7 days / 23 °C)

CURING DETAILS

Humidity (N. O.) and Temperature	Pedestrian traffic	Light traffic	Full curing
N.O. % 60 +10 °C	16 hours	3 days	10 days
N.O. % 60 +20 °C	13 hours	2 days	7 days
N.O. % 60 +30 °C	10 days	1 day	5 days

CHEMICAL RESISTANCE

Resistant to: Gasoline, beer, cyclohexane, diesel oil, ethanol 10%, ethylene glycol, glycerin, milk, sodium chloride solution 3-30%, sodium hydroxide 10%, olive oil, paraffin, petrol, castor oil, silicone oil, turpentine, water and soap.

Partially Resistant to: Butanol, methylisobutylketone, perchlorethylene and xylene. Color change may appear with the effect of chemicals. This study has been carried out at room temperature. High temperatures and / or mixtures of chemicals may affect the chemical resistance.

STORAGE AND PACKAGING

- It's offered in 15 kg sets. (Component A: 10 kg bucket, Component B: 5 kg bucket)
- Shipped on pallets upon request.
- Under proper storage conditions, shelf life is 12 months from date of production.
- Opened packages should be tightly closed, stored under proper storage conditions and consumed within 1 week.
- It should be stored in unopened original packaging, in cool and dry environment, without exposed frost and direct sun light.

WARNINGS

- Do not allow ponding when applying primer.
- New applied product must be protected from damp, condensation and water for at least 24 hours.
- During application, work clothing appropriate for occupational health and safety rules.
- If swallowed, consult a doctor immediately.
- Food and drink should not be brought to the application areas.
- Store out of the reach of children.
- Do not exceed the specified instructions and applications.
- Ask for product safety data sheet for more information.
- Please consult us for your technical questions related to all other application requirements.

CERTIFICATE OF CONFORMITY



The above data were obtained in the laboratory. For more information, please consult our Technical Department.
Entegre reserves the right to change the above information.
Entegre is not responsible for any failure due to misapplication.