

COATIX® EP 1130 Primer

Solvent-Free, Low-Viscosity Epoxy Primer

Product Description

COATIX® EP 1130 Primer is a two-component, solvent-free, low-viscosity, epoxy resin-based surface impregnation primer. It has good penetration properties, is resistant to chemicals and has high mechanical strength. It fills the capillary pores of concrete floors, increases their strength and acts as a bonding bridge for subsequent epoxy coatings or paints. It can also be used on its own to prevent dusting of concrete.

Areas of Use

- Factories, warehouses and shopping centres
- Workshops and aircraft hangars
- Schools and hospitals
- Pharmaceutical and food industry facilities
- Laboratories and car parks
- Treatment plants
- Areas with heavy forklift traffic and corrosive chemicals
- As a primer coat before self-leveling and epoxy coatings; on its own to prevent dusting of the floor

Advantages

- Solvent-free; provides low emissions during application
- High penetration thanks to its low viscosity
- High resistance to chemicals
- High mechanical strength
- Moisture-tolerant; can also be applied on damp surfaces
- Fills the capillary pores of concrete floors
- Forms a strong bonding bridge for subsequent epoxy coating/paint coats
- Prevents dusting of concrete when applied on its own

Technical Properties

General Information	
Material structure	Two-component, epoxy resin-based (A: resin, B: hardener)
Density (mixture)	1.00–1.10 g/cm ³ / 20°C (EN ISO 2811-1)
Viscosity (mixture)	300–450 mPa·s
Volatile organic compounds (VOC)	≤ 3 g/L
Solids content	100% (by weight)
Mechanical Properties	
Compressive strength (ASTM D695 / EN ISO 604)	72–85 N/mm ²
Shore D hardness (ASTM D 2240 / DIN 53505)	75 ± 5
Abrasion resistance – Taber (EN 1504-2)	≤ 115 mg / 1,000 cycles

Pull-off adhesion strength (EN 1542 / EN 1504-2)	$\geq 2.0 (1.5)^b \text{ N/mm}^2$
Impact resistance (EN 1504-2)	Class III
Capillary absorption and permeability to water (EN 1504-2)	$\leq 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Application Information	
Mixing ratio (A / B)	68 / 32 (by weight) – 2 / 1 (by volume)
Thinner	Do not thin
Application method	Roller, brush, trowel, screed rake, squeegee
Pot life	30–40 min / 23°C, 200 g (DIN 16945)
Consumption	100–150 g/m ² , depending on the surface
Application temperature (ambient and substrate)	+5°C / +30°C
Permissible substrate moisture	Max. 5%
Dust-dry	3–4 hours / 23°C (EN ISO 9117)
Touch-dry	8–10 hours / 23°C (EN ISO 9117)
Full cure	7 days / 23°C (EN ISO 9117)
Recoat interval	Max. 24 hours / 23°C
Pot Life (for 200 g mixture)	
+10°C	~ 60 minutes
+20°C	~ 40 minutes
+30°C	~ 15 minutes
Safety Information	
Hazardous substances	Refer to SDS

The technical values stated were obtained at +23°C ambient temperature and 50% relative humidity; times are extended as ambient and surface temperatures fall and shortened as they rise.

Application Instructions

Surface Preparation

Weak parts of the surfaces to be coated must be removed by scarifying, sandblasting or sanding. Any oil on the surface must be burnt off and the surface washed with COATIX® T 9100 Epoxy Thinner or a cleaning thinner. Dirt and dust must be removed with a vacuum cleaner. The pull-off strength of the surface must not be less than 1.5 N/mm².

Moisture Control

Before application, the moisture content of the concrete must be measured with a moisture meter; the permissible moisture limit is max. 5%. If no moisture meter is available, a 1 m x 1 m plastic sheet is taped to the surface and left for 24 hours; if there is no condensation under the sheet when checked, application may proceed. Attention must also be paid to the dew point before application.

Mixing

Component B is poured into the pail containing component A and mixed with a low-speed mixer until a homogeneous mixture is obtained. To minimise air entrainment, avoid over-mixing. Mixtures must be prepared by measuring or weighing, in quantities that can be used within the pot life.

Primer Application

The cleaned surfaces are primed by applying COATIX® EP 1130 Primer at the specified consumption with a roller, trowel, squeegee, screed rake or brush. The other epoxy coats must be applied no later than 24 hours after primer application; if this time is exceeded, light roughening of the surface is recommended.

Chemical Resistance

Chemical	Concentration	Resistance
Resistance to acids		
Sulphuric acid (H ₂ SO ₄)	10%	3~2
Sulphuric acid (H ₂ SO ₄)	20%	3~2
Hydrochloric acid (HCl)	10%	3~2
Hydrochloric acid (HCl)	20%	3~2
Nitric acid (HNO ₃)	10%	3~2
Nitric acid (HNO ₃)	20%	3~2
Acetic acid (CH ₃ COOH)	10%	3~2
Acetic acid (CH ₃ COOH)	20%	2
Lactic acid (CH ₃ CHOH-COOH)	10%	2
Lactic acid (CH ₃ CHOH-COOH)	20%	2~1
Formic acid (HCOOH)	10%	2
Formic acid (HCOOH)	20%	2~1
Chromic acid (H ₂ CrO ₄)	10%	2
Resistance to alkalis		
Sodium hydroxide (NaOH)	–	3
Resistance to solvents and others		
Xylene	–	2
Ethyl alcohol	–	2
Solvents	–	2

3 Highly resistant to the listed chemicals.

2 Resistant to the listed chemicals.

1 Not resistant to the listed chemicals.

~ Tendency between the two values.

For environments with chemicals not listed in the table, please consult our company. Values were obtained at +23°C under laboratory conditions after 7 days of curing.

Limitations

- The product must be applied when the substrate and ambient temperatures are above +5°C.
- On floors with rising damp, technical service must be consulted before application.
- Once prepared, the mixture must be used within the specified pot life; mixture that has exceeded its pot life must not be used.
- The primer must not be loaded or opened to foot/vehicle traffic before it has fully cured.
- The product must not be applied mixed with other chemicals not approved by the manufacturer.

Cleaning of Tools

Tools and equipment used must be cleaned with COATIX® T 9100 Epoxy Thinner before the product hardens. Hardened and/or cured material can only be removed mechanically.

Storage Conditions and Shelf Life

Store in unopened original packaging in a cool, dry place free of humidity, between +15°C and +25°C. Packages must be protected from frost. When not in use, the container must be tightly closed. When stored under the correct conditions, the product has a shelf life of 12 months from the date of manufacture.

Safety Precautions

During application, wear suitable work clothing, protective gloves, goggles and a mask in line with occupational health and safety requirements. Owing to the irritant and sensitising effects of the material, avoid contact of the components with skin and eyes; in case of contact, wash immediately with plenty of soap and water; if swallowed, seek medical advice immediately. Ensure adequate ventilation during application and keep away from open flames. Foodstuffs must not be brought into areas where the material is applied. Store out of the reach of children. For more detailed information, refer to the Safety Data Sheet.

Liability

Our company is responsible only for the quality of the product. Any use of the product outside the scope of the written technical recommendations, including incorrect application or use under unsuitable conditions, is entirely the responsibility of the user. For more detailed technical information, please refer to the product catalogue or contact our representatives.

Packaging

Component A 17 kg + component B 8 kg = 25 kg set

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