

EUCOPRIM EP VP

EPOXY PRIMER SUITABLE AS A VAPOUR BARRIER

FIELD OF APPLICATION

EUCOPRIM EP VB (Vapour Barrier) is an epoxy primer that is extremely suitable as an adhesive layer for synthetic resin systems on concrete. Applied in 2 layers EUCOPRIM EP VB acts as a vapour barrier. Can be applied on damp surfaces.

- As an epoxy primer on standard concrete surfaces and screeds;
- As a vapour barrier on concrete.
- As a primer on existing synthetic resin systems.
- As a primer and a vapour barrier before applying epoxy, polyurethane, polyaspartic, cementitious and tile floors.
- Parking decks, garages, workshops, warehouses, storage areas for dangerous goods, industry, basements and underground structures, decorative floors, retail spaces, shopping centres, public buildings, industrial kitchens, food and pharmaceutical industry, etc...
- Etc...

BENEFITS & FEATURES

- Can be applied as a vapour barrier on dry and slightly damp concrete floors (max 10%).
- Excellent adhesion to concrete and to old synthetic resin systems.
- Solvent free - odourless
- Moisture resistant curing
- Liquid and vapour tight (2 layers)

APPLICATION

Application conditions

Approximately 24 hours before the application, EUCOPRIM EP VB must be stored between +15°C and +25°C. The substrate, the ambient temperature and the temperature of the equipment to be used must be between +15°C and +30°C.

Relative ambient humidity: max. 85%.

Substrate moisture content: < 10% (weight percent).

Dew point before and during application and during curing: The temperature of the substrate must be +3°C higher than the dew point.

Provide sufficient ventilation after application to obtain good curing of the product.

Compressive strength of the substrate: min. 25 N/mm²

Tensile strength of the substrate: min. 1.5 N/mm²

Moving joints and cracks (expansion joints, settlement joints, ...) must be repeated in the system. Contraction joints, cracks and joints can be over-coated, if treated correctly, provided they are not active and do not / no longer follow the movements / settlement of the building.

Tools & complementary products

- Mixer with spindle and clean mixing containers.
- Rubber squeegee, brush or paint roller (12 mm hair and suitable for synthetic resin).
- Masking tape.

Order separately:

- EUCOGRAN 0.4-0.8 (if broadcasting of primer is desired)
- EUCOSOLV MEK

Preparations

The surface to be treated must be dry (moisture content <10%) and must be free of free standing water. Make cracks, fissures, joints and other parts showing water leaks completely water and leak proof with the EUCOCHEM BV EUJOINJECT injection resins. Existing screeds and concrete surfaces must be at least 28 days old.

Remove loose, poorly adhering or insufficiently load-bearing parts mechanically. Repair the areas that are not sufficiently flat with:

EUCOREP EP FLOOR mortar.

EUCOBIND EP + EUCOGRAN 0.1-0.3 scraping / levelling layer (1/1 ratio).

EUCOREP EP PASTE epoxy paste.

The surface must be free of dirt, grease, release agent, grease, old, demoulding oil, cement skin, old paint layers that do not adhere well, coatings, synthetic resin layers, adhesives, bitumen, ... or other matters that can adversely influence the adhesion. The substrate must be mechanically pretreated. For example by bullet blasting, sandblasting or by sanding the surface.

Degrease tiles and old synthetic resin layers well and sand with a diamond disc.

You can make seamless resin skirting boards with EUCOPRIM EP or EUCOPRIM EP VB (primer) and EUCOREP EP (skirting and repair mortar).

Before applying the primer, brush all surfaces well and remove dust with an industrial vacuum cleaner.

Always use clean equipment and clean mixing containers.

Preparation of the product

EUCOPRIM EP VB as a standard primer:

First mix component A for 2 minutes with a mixer and spindle. Then add the B component completely to the A component and mix again for at least 2 minutes until a homogeneous mixture is obtained. This mixture can now be used as a primer or a vapour barrier.

The mixing operations are carried out mechanically with a mixer at low speed (max. 300 rpm) in order not to include air in the resin. This avoids the formation of air bubbles in the mixture and in the applied layer. After this, the product is ready for use.

Application of the product

Process the product within 30 min. after mixing. (at +20°C)

AS A PRIMER:

Application with brush or paint roller:

Pour EUCOPRIM EP VB onto the surface to be treated and spread evenly with the paint roller or brush until a completely closed film is obtained.

Application with rubber squeegee + paint roller:

Pour EUCOPRIM EP VB onto the surface to be treated and spread evenly with the rubber squeegee until a completely closed film is obtained. Application with a rubber squeegee on smooth, even surfaces is automatically followed by subsequent rolling with a 50 cm wide paint roller.

Provide complete coverage of the surface. When applying on highly absorbent surfaces, you can opt to apply a second layer, 24 hours (at 20°C) after application of the first layer.

To further improve the adhesion between primer and synthetic resin system to be applied afterwards, EUCOPRIM EP VB can be optionally broadcasted with EUCOGRAN 0.4-0.8.

AS A VAPOUR BARRIER:

Application with brush or paint roller:

Pour EUCOPRIM EP VB onto the surface to be treated and spread evenly with the paint roller or brush until a completely closed film is obtained. Apply a second layer after 24 hours.

Application with rubber squeegee + paint roller:

Pour EUCOPRIM EP VB onto the surface to be treated and spread evenly with the rubber squeegee until a completely closed film is obtained. Application with a rubber squeegee on smooth, even surfaces is automatically followed by subsequent rolling with a 50 cm wide paint roller. Apply a second layer after 24 hours.

Provide complete coverage of the surface. To further improve the adhesion between vapour barrier and synthetic resin system to be applied afterwards, EUCOPRIM EP VB can be optionally broadcasted with EUCOGRAN 0.4-0.8.

Finishing

24 hours (at 20°C) after applying EUCOPRIM EP VB next layer of the synthetic resin system can be applied.

Cleaning of the tools

Clean the used tools with EUCOSOLV MEK. Cured product residue must be removed mechanically.

MAINTENANCE AFTER APPLICATION

Does not apply.

TECHNICAL DATA

Consumption

Consumption depends on the application, the porosity and the roughness of the substrate:

As a primer:

300 g/m²/layer.

Vapour barrier:

1st layer - 350 g/m²

2nd layer - 350 g/m²

Technical data & reaction times

Property	Value
Basic raw materials	Comp A: Modified epoxy resin Comp B: Polyamine hardener
Composition	2 component resin
Density	Resin mixture (A+B): 1,05 kg/dm ³
Bonding strength (on slightly damp concrete)	> 2.5 N/mm ² .
Mixing ratio resin mixture (A: B)	2 : 1 (in weight)
Hardness (Shore D)	75 - 85
Layer thickness	approx 300µm per layer
Curing	Shrink-free.
Appearance - colour	Glossy - amber transparent

Pot life after mixing: Max. 30 min.

Re-coating time: After 24 hours

Pedestrian traffic: After 24 hours

Mechanical load: After 4 days

Full chemical resistance: After 7 days (Attention: water is also a chemical product.)

Times measured at 20°C. Changes in temperature result in different reaction times.

Chemical resistances

EUCOPRIM EP VB has excellent chemical resistance to alkalis, petroleum derivatives, battery acid, diluted organic acids, salts and solutions. When used in applications with chemically products, it is advisable to consult your EUCOCHEM BV representative.

Additional documentation & referrals

Always consult all technical data sheets and material safety data sheets of the products to be used. Always work with clean tools in good condition.

APPEARANCE - COMPOSITION - PACKAGING

EUCOPRIM EP VB is available as follows:

15 kg set:

Comp. A: 10 kg

Comp. B: 5 kg

EUCOPRIM EP VB can be stored in its original, unopened packaging and in a dry room. Do not store in direct sunlight and between +5°C and +30°C. Shelf life of 12 months after production date, provided it is stored under the conditions described above.

ADDITIONAL COMMENTS

For special applications it is advisable to consult your EUCOCHEM BV representative.

SAFETY PRECAUTIONS

Always use personal protection in accordance with the local guidelines. Consult the appropriate safety sheets before use. All most recent safety data sheets are always available at [op www.eucochem.com](http://op.www.eucochem.com). When in doubt, contact our technical service.

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