

Technical Data Sheet



AB-POX® 004

2-C-EP-special primer for damp
and wet cleaned concrete surfaces

Description:

2-component special epoxy primer, low viscosity, coloured
VOC < 500 g/l, free of nonylphenol

Characteristics:

- oil resistant
- displaces water
- very deep capillary penetration
- very high mechanical resistance
- high density
- easy application
- inert and harmless once cured

Application:

AB-POX 004 is a special epoxy primer which is suitable on oil-contaminated concrete surfaces, which have been cleaned by high pressure water jetting. The material is suitable for indoor and outdoor areas. **AB-POX 004** is specially developed for applications on these **damp** concrete surfaces. Due to the compact density **AB-POX 004** acts as barrier against capillary rising oil and water. The primed and sprinkled surfaces can be coated with suitable **AB-POX-** and **AB-PUR -** systems. **AB-POX 004** is also suitable as bonding agent between new and old concrete.

Consumption:

Minimum 0.8 - 1.0 kg/m² (always sprinkle all-over with clean, dry quartz sand Ø 0.4 - 0.8 mm).

Resistant to:

- water / sewage
- alkalis
- mineral oil
- dry temperature max. 100°C
- saline solutions
- diluted acids
- lubricants and fuels
- wet temperature max. 80°C

Technical Data:

Mixing ratio A : B	100 : 12 by weight (8.33 : 1)
Density (23°C)	approx. 1.90 g/cm ³
Solids	approx. 98 %
Viscosity (23°C)	approx. 650 mPa·s ± 150
Compressive strength (DIN EN ISO 604)	approx. 80 N/mm ²
Tensile strength (DIN EN ISO 178)	30 N/mm ²
Water absorption	< 1.5 %
Glass transition temperature	> 100°C
First contact with water	after 24 hours (23°C)
Pull off strength - dry concrete	> 2.0 N/mm ² (curing time 7 days / 23°C)
Pull off strength - damp concrete	> 1.5 N/mm ² (curing time 7 days / 23°C)

Details for application:

Pot life (8°C / 23°C / 30°C)	approx. 90 minutes / 60 minutes / 30 minutes
Substrate temperature	minimum 8°C up to maximum 30°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	90 % (dew point +3°C)
Duration between applications (if sprinkled with quartz sand, the duration will increase)	8°C: min. 24 hours 23°C: min. 12 hours 30°C: min. 12 hours
Curing time / foot traffic (8°C / 23°C / 30°C)	24 hours / 12 hours / 12 hours
Curing time / mech. resistance (8°C / 23°C / 30°C)	96 hours / 48 hours / 48 hours
Curing time / chem. resistance (8°C / 23°C / 30°C)	10 days / 7 days / 5 days
All above values are approximate and may be used as a guideline for specifications	

Packaging:

30 kg - pails

Colour:

grey

Storage:

12 months, unopened in original drums under dry conditions and a temperature of 15 - 25°C.
At temperatures < 10°C crystallisation is possible. Please consult us.

1. Surface preparation

Prior to the application the substrate must be inspected and tested regarding the expected mechanical stress. Debris must be removed.

Oil-contaminated concrete surfaces:

Such surfaces must be prepared and cleaned by a qualified pre-treatment. Oil-contaminated surfaces must first be prepared repeatedly with an emulsifying detergent and cleaned by high pressure water jetting. The wastewater and oily residue must be removed with an industrial vacuum cleaner. We recommend appointing a specialist contractor for these projects. The wastewater must be collected and disposed of in accordance with existing local regulations.

Damp concrete surfaces:

Damp concrete surfaces must be free of standing water. It must be ensured that there is no water on top of the concrete or in the pores. This particular formulation will guarantee excellent adhesion to **AB-POX 004** on difficult substrates. See also "general preparation and application instructions" sheet.

2. Application

Prior to mixing, the temperature of the components must be between 15 - 25°C. Mix the components in the correct ratio using a suitable low speed electric mixer (300 - 400 rpm) for at least 3 minutes or until a completely homogeneous mixture has been achieved. Put the mixed material into a clean container and mix again for at least 1 minute more. Distribute the mixture immediately onto the surface. Use a rubber squeegee to spread **AB-POX 004** evenly and brush it carefully onto the surface with a paint-roller or brush. The applied primer must always be sprinkled (all-over) with clean, dry quartz sand Ø 0.4 - 0.8 mm (approx. 1.5 kg/m²), but not in excess. It is **important that the sand covers the entire floor**, because areas not sprinkled must be cleaned, carefully ground and re-coated with **AB-POX 010**. Prior to, during and after the application the temperature of the substrate must be at least +3°C above the current dew point temperature.

3. System description

The recommendations are for ambient and surface temperatures of 15 - 23°C. Both high and low temperatures will influence the consumption per m². Once cured it is possible to apply any **AB-POX-** or **AB-PUR -** system.

4. N/B

Due to the sprinkled quartz sand **AB-POX 004** does not act as a barrier against water vapour. If this property is required an additional coating with e. g. **AB-POX 010** must be applied. Please consult us.

5. Packaging

30 kg - sets
26.78 kg component A
3.22 kg component B

6. Health and safety

GISCODE: RE30

Avoid inhalation of the vapours and contact with skin. Wear suitable protective clothing, gloves and eye / face protection. Adequate ventilation of the working area is recommended. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When using do not eat, drink, smoke and keep away from sources of ignition. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Safety Data Sheet.

7. EU Directive ("Decopaint-RL"):

Acc. to the EU Directive 2004/42/EG the maximum allowed content of VOC (Product category All / j / type SB) is 500 g/l (Limit 2010) for the ready to use product. This product is in accordance with the EU Directive 2010.

AB-POX 004; 2.00/07.01.19. Before use, please check that this is the actual edition of the Technical Data Sheet. The information contained in this Technical Data Sheet is of a general nature and is provided in good faith and we accept no liability for errors or omissions. Because use and application of this product are out of our control and depend, concerning substrate, load and method of application, on the particularities of the individual case, our advice, verbal, written or based on tests, does not exempt the applicator from testing the suitability of the products for the intended use.

AB-Polymerchemie GmbH

Tjüchkampstraße 21 - 24
D - 26605 Aurich
Tel.: +49 (0)4941 - 604360
Fax.: +49 (0)4941 - 6043643
info@ab-polymerchemie.de
www.ab-polymerchemie.de