

Technical Data Sheet



AB-ZEROPOX® 8068

2-C-EP- decorative casting resin



Description:

2-component epoxy resin, low viscosity, colourless, unfilled
very low emission, free of benzyl alcohol and nonylphenol

Characteristics:

- casting resin for thick layer applications
- very low yellowing tendency
- low viscosity
- transparent / gloss curing
- very long open time
- very slow curing
- inert and harmless once cured

Application:

AB-ZEROPOX 8068 is a very low emission, slow curing casting resin for thick layer applications and shows an excellent colour constancy, which is not typical for standard epoxy resins. The resin is specifically designed for professional applications and shows a long open time.

Note:

To achieve perfect curing and good ventilation, processing, object and material temperatures $\geq 15^{\circ}\text{C}$ are necessary. The maximum coating thickness in one operation is up to 10 cm. Higher layer thicknesses please cast in several working steps (see maximum thickness).

Consumption:

depending on use

Resistant to:

- water
- diluted alkalis
- saline solutions
- diluted acids
- not suitable for wet areas

Technical Data:

Mixing ratio A : B	100 : 33,33 by weight (3 : 1)
Density (23°C)	approx. 1.10 g/cm ³
Volume solids	approx. 100 %
Viscosity (23°C)	approx. 200 mPa·s \pm 50
Shore D - hardness (DIN EN ISO 868)	approx. 80 (final hardness)
First contact with water	after 48 hours (23°C)

Details for application:

Pot life (23°C)	approx. 4 hours
Substrate temperature	minimum 15°C up to maximum 25°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	at 15°C: 75 % (dew point +3°C) at > 23°C: 85 % (dew point +3°C)
Duration between applications	23°C: min. 48 hours max. 72 hours
Curing time / foot traffic (23°C)	72 hours
Curing time / mech. resistance (23°C)	5 days
Curing time / chem. resistance (23°C)	7 days
All above values are approximate and may be used as a guideline for specifications	

Packaging:

25 kg - pails

Colour:

clear

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

The surface that is to be casted must be in a sound condition and of good quality in general. The surface must be clean, dry and free of oil, fat and other contaminants.

See also "general preparation and application instructions" sheet.

2. Application

Prior to mixing, the temperature of the components must be at least 15°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. **It is essential to minimize the introduction of air during the mixing process.** Distribute the mixture immediately onto the surface or apply the resin (depending on the application, pour in several working steps). Prior to, during and after the application the temperature of the substrate must be at least +3°C above the current dew point temperature.

For successful processing of **AB-ZEROPOX 8068** the control of the exotherm behaviour is a decisive influencing factor. Depending on the ambient temperature, the volume of the resin and the casting thickness / potting geometry, the curing rate and the heat of reaction released vary greatly. Under unfavorable conditions (e.g. too high room temperature for defined potting resulting in an excessive local exothermic reaction), the cured resin may be yellowish and show streaks on the surface. The maximum casting thickness must be estimated or determined in advance for each object, depending on the prevailing conditions. After casting and brief relaxation of the material, remaining bubbles can, if necessary, be removed with a hot air blower (blow off surface from a distance of approx. 15 cm).

Maximum thickness (cup Ø 12 cm)

Room temperature	Casting thickness
< 20°C	approx. 10 cm
21°C	approx. 7 cm
23°C	approx. 5 cm
25°C	approx. 3 cm

3. System description

The following figures are for ambient and surface temperatures of 15 - 25°C.

AB-ZEROPOX 8068, clear

Consumption: at least 2 kg/m², depending on object.

Professional maintenance will increase the service life of the flooring system.

N/B:

Mechanical wear and tear can affect the aesthetic quality of the surface (pale scratch marks). In time the surface will become marked.

Continuous exposure to UV radiation can cause discolouration. Continuous exposure to temperatures > 40°C can also lead to discolouration.

4. Chemical resistance

Depending on the requirements we recommend to test the chemical resistance.

5. Packaging

25 kg - sets

18.75 kg component A

6.25 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-ZEROPOX 8068; 1.10/01.10.24. 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.

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