

REPOX® AW

Waterborne Epoxy Surface Primer

DESCRIPTION

Epoxy resin based, double component **waterborne surface primer** for concrete and cement based mineral surfaces.

APPLICATION AREAS

- Indoor and outdoor
- As a primer under the coatings in hygienic environments such as hospitals (especially operation room walls) and laboratories, in food and industries, potable water tanks, terminals, shopping malls, schools, tunnels and parking garages,
- Under **REPOX** epoxy based floor coatings
- As a primer under **POLAN** polyurethane based floor coatings.

TECHNICAL PROPERTIES

Components	A: Epoxy resin, B: Hardener
Color	Transparent
Mixture Ratio	A: 7 kg, B: 13 kg
Mixture Density	1.12 ± 0.05 kg/L (20°C TS EN ISO 2811-1)
Viscosity	600 ± 200 mPas (20°C)
Capillary Absorption and Water Permeability	w < 0.1 kg/(m ² . h0.5) (EN 1062-3)
Solid Content (Mixture)	By weight 47% ± 2, by volume 45% ± 2
Pot Life	~ 80 minutes (23°C, 200 g, DIN 16945)
Application Temperature	Between +10°C and +30°C
Dirt Pick-up Time	3 – 4 hours (23°C TS 4317)
Dry to Touch Time	18 – 20 hours (23°C TS 4317)
Top Coat Time	48 hours (23°C TS 4317)
Complete Curing Time	7 days (23°C) / 30 minutes (80°C)

ADVANTAGES

- Waterborne, odorless.
- Does not contain solvent or harmful chemicals.
- Holds and penetrates perfectly on cement based surfaces and prevents dusting.
- Functions as a bonding bridge for epoxy and polyurethane coatings and paints which will be applied on it.
- Resistant to moisture and water (Not resistant to the permanent moisture coming from negative direction)
- Has high mechanical strength.
- Has low viscosity.

CONSUMPTION

100 - 200 g/m² (for 100 µ thickness) (Varies depending on the absorption and roughness of the surface, and the method of application).

PACKAGING

In tin cans, sets of 20 kg (A+B)

APPLICATION

PREPARATION OF THE SURFACE

- The surface must be free of weakly adhered parts, clear of materials that prevent bonding, such as dust, oil, tar, paint, silicone, curing materials, detergents and mold oils and be rough to improve adhesion. If the surface needs to be repaired, use the appropriate REPOX series repair mortar.
- If the application surface is concrete, it must be cured (28 days) and have a minimum compressive strength of 25 N/mm² and tensile strength of 1.5 N/mm². The humidity of the floor concrete should be maximum 6% and the floor temperature should be at least 3°C above the condensation point.

MIXTURE

- REPOX AW is packaged as two components in appropriate quantities. First mix each component in itself. Add 13 kg of component B (hardener) to 7 kg of component A (epoxy resin). Mix for 3-4 minutes until a homogeneous consistency is obtained with a drill with a 300 - 400 rpm mixer tip. Take the whole mixture into a clean container and mix again. If a part of the product is to be used, pay attention to the mixing rates.
- Wait 10 – 20 minutes to use the mixture to eliminate any foaming that may occur.

APPLICATION

- Apply REPOX AW to the floor with a roller or airless gun.
- Apply the coating on it in 48 hours at the latest.
- Make sure that the wet thickness is not more than 20 microns per coat.

CAUTION

- Avoid application at temperatures below +10°C and above +30°C.
- Use a suitable drill in mixing REPOX AW, never mix by hand or with a trowel.
- Do not add solvent, etc. to the mixture. It may be diluted with 5 – 15% water in case necessary. Do not thin with thinner or similar materials.
- Bring the materials to the application area at least 24 hours before in order for them to adapt to the ambient conditions.
- Working and curing times of epoxy resin-based products depend on the ambient and floor temperature. As the viscosity increases at low temperatures, the amount of consumption also increases. The chemical reaction slows down, thus extending the pot life and working time. At high temperatures, the opposite is true.
- If heating is required in the application area, use only electrical, warm air blowing systems so that it does not affect the surface appearance.
- Avoid applying in frozen areas at risk of freezing within 24 hours, or that are directly exposed to the sun and wind.
- Pay attention to the pot life. The product may still seem applicable after the expiration of the pot life.
- Do not walk on for at least 24 hours after the application. Avoid water contact and condensation 48 hours, otherwise carbonation will occur. In this case, clean the surface with sandpaper and apply a thin coat again.
- After the application is finished, clean the equipment only with water. Hardened grout can only be removed mechanically.
- The opened package should be consumed within a maximum of 2 days under appropriate storage conditions.

SHELF LIFE

Expires in 12 months. Store unopened packages in a cool, dry environment, protect from sun, between +15°C and +25°C. Protect against freezing.

HEALTH AND SAFETY

As with all chemical products, avoid contact with food, skin, eyes and mouth during use and storage. In case of contact, wash immediately with plenty of water and soap, and if swallowed, consult a doctor immediately. During application, wear work clothes, protective gloves, goggles and masks in accordance with occupational health and safety rules. Do not bring food and beverage into the application areas. Do not approach the storage and application areas with fire. Ventilate the area. Store out of reach of children.

* The application instructions and technical values given for the products have been obtained in our tests in accordance with international standards and our experience, at $23 \pm 2^{\circ}\text{C}$ temperature and $50 \pm 5\%$ relative humidity. These values may vary depending on ambient conditions. High temperatures shorten the durations, low temperatures extend them. Before starting the application, whether the product is suitable for the application and purpose should be tested by the user. FIXA Construction Chemicals is not responsible for application errors that may occur if the product is used outside of its intended purpose or if the application conditions and recommendations mentioned above are not followed. This Technical Data Sheet is valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that a new version is published. It is the user's responsibility to check the currency of the document. For more information, please contact our sales department.