

# REPOX® 560WB

Waterborne Epoxy Paint and Coating

## DESCRIPTION

Epoxy resin based, double component, durable and easy-to-clean, waterborne **paint** and **coating** material with high chemical, moisture, water and mechanical resistance.

## APPLICATION AREAS

- Indoor
- Hygienic places such as hospitals and laboratories
- Water tanks
- Food industries
- Shopping malls, terminals and schools
- Factories, warehouses, tunnels and parking garages
- As a paint on walls with smooth surfaces.

## TECHNICAL PROPERTIES

Components	A: Epoxy resin, B: Hardener
Color	Standard RAL colors (Except metallic, phosphorous colors and colors beginning with 4000)
Mixture Ratio	A: 15 kg, B: 10 kg
Mixture Density	1.30 ± 0.05 kg/L (20°C TS EN ISO 2811-1) (A+B)
Viscosity	3.000 – 5.000 mPas (20°C)
Compressive Strength	40 - 50 N/mm <sup>2</sup> (DIN 53504 TS 1967) 7 days
Bond Strength by Pull-off	> 2 N/mm <sup>2</sup> (EN 1504-2) 7 days
Tensile Elongation	> 6% (DIN 53504 TS 1967) 7 days
Abrasion Resistance (Taber)	< 100 mg, 1000 cycle (EN 1504-2)
Impact Resistance	Class III (EN 1504-2)
Capillary Absorption and Water Permeability	w < 0.1 kg/(m <sup>2</sup> . h <sup>0.5</sup> ) (EN 1062-3)
Solid Content (Mixture)	By weight 75% ± 4, by volume 66% ± 4
Hardness (Shore D)	70 ± 5 (ASTM D 2240, DIN 53505)
Pot Life	60 - 90 minutes (23°C, 200 g)
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	Maximum 24 hours (23°C TS 4317)
Time to Use	48 hours (23°C TS 4317)
Complete Curing Time	7 days (23°C TS 4317)

## ADVANTAGES

- Waterborne, odorless
- Does not contain solvent or harmful chemicals
- Resistant to water and moisture (except continuous moisture exposure from negative direction)
- Mechanically resistant to light and medium loads
- Hygienic and suitable for sterilised conditions
- Has permanent semi opaque surface.

**CONSUMPTION**

150 - 250 g/m<sup>2</sup> for 115 - 195 µ dry film thickness in each layer. (Varies depending on the absorption of the surface and the method of application.)

**PACKAGING**

Sets of 25 kg (A+B) tin cans

**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.
- The surface must be porous to increase adherence and primed with **REPOX AW Solvent-Free Epoxy Primer**.
- Determine the suitability of the surface moisture before application. Moisture should not exceed 4%.

**MIXTURE**

- REPOX 560WB is packaged as two components in appropriate quantities. First mix each component in itself. Add 10 kg of component B (hardener) to 15 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 for possible foaming to end before using the product.

**APPLICATION**

- Apply REPOX 560WB to the surface with a satin/velvet trowel or airless gun without air bubbles.
- It is an advantage that the concrete surface is slightly damp for the first layer to adhere well to the surface. Run a damp cloth over the surface for a short time. If there is need, you can add 5-10% fresh water to the material for the first layer.
- Apply the second coat within 12 - 18 hours (at +20°C) without diluting.
- In multi-coat applications, apply the second coat before the coat acceptance period. Otherwise, there is no chemical adhesion between the layers and there is a risk of peeling of the top layer. If the coat acceptance time has passed, the bottom layer should be roughened by mechanical methods.
- Wet thickness should not be more than 200 micron per coat.

**CAUTION**

- Avoid application at temperatures below +10°C and above +30°C.
- Use a suitable drill in mixing REPOX 560WB, never mix by hand or with a trowel.
- Do not add solvent, etc. to the mixture. In case of a need you can dilute with 5-10% water. 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. Although the pot life is over, the material can be seen as usable.
- Do not walk on for at least 24 hours after the application. Avoid water contact and condensation 48 hours.
- After the application is finished, clean the equipment only with cellulosic thinner. Hardened grout can only be removed mechanically.
- The opened package should be consumed within a maximum of 2 days under appropriate storage conditions.



## Technical Data Sheet (TDS)

Form No: 5.01 TDS Repox 560WB  
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### 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.