



RZ - 5270

Polyamine Cured Epoxy Sealer (For Concrete Surfaces)

Product Description

RZ-5270 is a two pack polyamine cured epoxy sealer Coat for concrete surfaces.

Recommended Use

As a sealer for pretreatment of concrete floors, prior to application of epoxy flooring & as a primer in epoxy coating systems.

Outstanding Characteristics

- Excellent mechanical strength
- High oil resistance
- High chemical resistance against weak acids and alkalies
- Easy application

Surface Preparation

The surface must be clean & dry all dirt, grease, mill scale & any other foreign materials should be removed. The concrete substrate should be old at least 28 days. The maximum moisture content is 6% .

Technical Data

Finish	Glossy
Color	Transparent
Volume Solids	59± 2%
Specific Gravity	1.02 ± 0.02 gr/cm ³
Flash Point	27°C
Dry Film Thickness	Depending on surface Porosity ,normally used 0.15-0.2 kg/m ²
Touch dry	6 hrs at 25 °C
Fully cured	7 days at 25 °C
Thermal Resistance	up to 140 °C
Shelf life	12 months

Application Details

Application method	Air/Airless spray Brush, Roller
Nozzle orifice	.015"-.017"
Nozzle pressure	120 bar
Ambient temperature	10-45 °C
Mixing ratio	Base / Hardener 4 / 1 by weight
Thinner/Cleaner	RZT- 51
Pot life	60 min at 20°C
Recoat interval	Min 16 hrs Max 5 days

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Application Procedure of RZ-5270

All possible slip agent, oil, grease & other contaminants must be removed by eg abrasive blasting, volatilizing by flame cleaning or treatment with suitable detergent. Last mentioned in the following way: saturation of the surface with fresh water. Washing with detergent followed by fresh water hosing.

Depending on construction & purpose, abrasive blast, high pressure water jet or treat the concrete with power tools to obtain a rough and firm surface free of scum layer and other contamination. Remove dust and loose material. If mechanical treatment is impossible, the surface may be treated with acid etching. For this purpose an approx. 5% w/w nitric or phosphoric acid solution is recommended.

Note: strong acids, take necessary precautions, make sure that safety regulations are obeyed! Prior to etching the concrete should be saturated with fresh water to prevent acid corrosion of the reinforcement bars. Leave the acid to act for 3-4 minutes and hose down the surface with fresh water.

Preferably first a 5% w/w sodium hydroxide solution and scrub carefully. After that the surface must dry homogenously and appear as an even, rough surface free of a loose outer layer. The surface must have a pH reaction of between 6.5-8.0. if any of these conditions are not fulfilled. The process must be repeated. The surface must be dried with good ventilation for at least 2 days (65% relative humidity and 25 °C). The pretreatment is controlled by scraping with a strong knife. The surface shall feel solid and hard. And the knife must only leave a clear scratch mark.

Environmental Conditions

Surface temperature must be at least 3° C above dew point. Relative humidity during application should be less than 80%.

Do not apply coatings under reverse environmental conditions.

Each coat shall be air dried a minimum of 16 hours at 25° C prior to recoating. Longer recoat times will be required at lower temperatures. Normal recoat time is within 16 hours. Longer recoat times may require special surface preparation. These coating shall not be applied at temperatures below 10° C.

Safety

This product is flammable. Keep away from heat and open flame. Keep container closed. Avoid prolonged and repeated contact with skin. Since improper use and handling can be hazardous to health and cause fire or explosion, safety precautions included with application instructions must be observed during all storage, handling, use and drying periods.

If used in confined areas:

- circulate adequate fresh air continuously during application and drying.
- Use fresh air masks and explosion proof equipment
- Prohibit all flames, sparks, welding and smoking
- Take precautionary measures against static discharges

Keep away from food products.

Storage conditions

Store in cool dry conditions, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperature, the shelf life may be reduced.

Disclaimers

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience.

However we reserve the right to change the given data without notice.

Any recommendation relating to the use of the products, is based on data believed to be reliable. It is buyer to satisfy itself of the suitability of the product for its own particular use.

As the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself.

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