



SAINT-GOBAIN

durarep ZR primer

**SINGLE-COMPONENT EPOXY
ZINC PRIMER**

DESCRIPTION

durarep ZR primer is a single-component liquid epoxy resin, enriched with metallic zinc, offering excellent corrosion protection properties when used in conjunction with **a.b.e.'s dura repair** systems.

USES

durarep ZR primer is recommended as an anti-corrosion primer for exposed steel reinforcement, for use with **durarep** repair mortars. Actively resists corrosion in the repair area and avoids the generation of incipient anodes in the adjacent areas.

ADVANTAGES

- Zinc enriched, prohibits corrosion through electro-chemical action
- Provides longevity of repair
- Single-pack system allows for flexibility during application
- Easy to apply - touch dry after 30 minutes
- Exhibits excellent corrosion protection of steel
- Economical - single component ensures almost no waste

SURFACE PREPARATION

All metal to be coated must be clean, mechanically sound and dry. Expose all corroded reinforcing steel and grit blast. A clean bright finish is required ensuring that all corrosion products are removed particularly behind the steel. The anchor pattern should be approximately 40 to 60 microns from peak to valley. Prime before flash rusting occurs, normally within 3 hours of cleaning.

COVERAGE

durarep ZR primer will cover 7,1 m² per litre. This coverage is theoretical – various points need to be considered, like surface profile i.e. the smoother the surface the greater the coverage will be, and therefore practical coverage rates may vary.

TYPICAL PHYSICAL PROPERTIES

Relative density	1.98	
Recommended thickness (dft)/coat	43 microns	
Recommended thickness (wft)/coat	140 microns	
Corrosion resistance (EN15183) - 8 mm and 16 mm dia steel reinforcing bars x 200 mm and 200 x 90 x 1.5 mm S235 steel plate to Sa 2½ per EN ISO 12944-4	Complies <1.0 mm	
Shear adhesion strength (EN15184) - 16 mm dia S235 ribbed steel bars into 200 x 200 mm concrete with bond length of 80 mm	Coated - 13.08 kN, <0.1 mm displacement	
Dry times		
Touch dry	20 °C	35 °C
	30 min	20 min
Fully dry (recoatable)	20 °C	35 °C
	50 min	30 min

APPLICATION

Thoroughly stir the product before use in order to redisperse any settlement that may have occurred.

After the preparation of the steel, the application of **durarep ZR primer** must commence as soon as possible. The reinforcing steel surface is to be dry and the priming must be completed within 3 hours.

Using a suitable brush, apply a single coat of **durarep ZR primer** to the clean, prepared reinforcing steel and allow to dry. Note that this single coat should be continuous and unbroken leaving no open pits or air holes where corrosion could set in.

Should any doubt exist about obtaining a continuous unbroken film, apply a second coat after the first coat has fully dried (generally after 30 minutes).

The primed surfaces should not be left exposed to the elements for longer than necessary before application of the repair material.

The application of the repair materials should commence soon after the **durarep ZR primer** has fully dried. Do not leave the primer exposed for more than three days.

CLEANING

durarep ZR primer should be removed from tools and mixing equipment using **abe® super brush cleaner** immediately after use.

PROTECTION ON COMPLETION

Ensure that all surfaces primed are kept clean and free of contaminants prior to further product applications.

TEMPERATURE AND RELATIVE HUMIDITY

durarep ZR primer should not be applied when the temperature is below 5 °C and falling. If any doubt arises concerning temperature or application conditions, consult **a.b.e.**®'s technical department.

MODEL SPECIFICATION

Single-pack, zinc-rich epoxy for coating of reinforcing steel prior to concrete repair.

The steel primer will be **durarep ZR**, a single-pack zinc-rich epoxy coating applied in accordance with the recommendations of **a.b.e.**®.

The primer will have drying time of 30 minutes at 20°C and be compatible with the **durarep** concrete repair system.

PACKAGING

durarep ZR primer is supplied in 1 litre metal containers.

HANDLING & STORAGE

This product has a shelf life of 12 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

Store in dry conditions in the original containers. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

durarep ZR primer is flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO² or foam. Do not use a water jet.

HEALTH & SAFETY

Wet **durarep ZR primer** is toxic and flammable. Ensure the working area is well ventilated during application and drying. Avoid flames in the vicinity. Always wear gloves when working with the material and avoid excessive inhalation and skin contact. If material is splashed in the eye, wash with copious quantities of clean water and seek medical attention.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.**® endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot accept any liability for application – because **a.b.e.**® has no direct or continuous control over where and how **a.b.e.**® products are applied.

FURTHER INFORMATION

- Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.
- **a.b.e.**® has a wealth of technical and practical experience built up over the years in the company's pursuit of excellence in building and construction technology.
- Please consult our website for our latest datasheets.

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