



TufBuild ZP

Single Component, Epoxy Zinc Primer for Steel

Uses

TufBuild ZP is the recommended anti-corrosion primer for exposed steel reinforcement for use with GIC Concrete repair mortars. The product actively resists corrosion within the confines of the repair location and avoids the generation of incipient anodes in immediately adjacent locations. TufBuild ZP, an electrically conductive coating, is fully compatible with all GIC mortars, fluid micro-concretes and certain electrochemical products.

Typical Applications & Advantages

- Electro-chemically active zinc rich system prevents corrosion.
- Economical, single component with no pot life, simple to mix & use. Low wastage.
- Fast over-coating time.
- Excellent adhesion to steel.
- As an anti corrosion primer for steel reinforcement in concrete.
- Part of the **TufBuild** concrete repair and rehabilitation range of products.
- For touch-up applications on damaged galvanized metal
- As a temporary coating for exposed structural steelwork.

Standards Compliance

TufBuild ZP complies with the requirements of the following standards:
BS 4652: 1995

Product Description

TufBuild ZP is a single component, solvent based primer and corrosion inhibitor for steel. **TufBuild ZP** is a zinc rich epoxy based on metallic zinc and high molecular weight epoxy resins. When applied over reinforcement steel, **TufBuild ZP** prevents corrosion and deterioration. **TufBuild ZP** is a thick paint-like consistency that can readily achieve high coverage rates. **TufBuild ZP** forms a part of the **TufBuild** Concrete Repair & Renovation Range.

Typical Properties

Appearance	: Thick grey liquid
Specific gravity@ 25°C	: 2.20
Tack free time	: 20 minutes@25°C
Overcoat time	: 5 hours @ 25°C
Application temp	: +5°C to +40°C
Dry film thickness	: 100 microns
Metallic zinc content	: > 85%

Technical Support

GIC provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance.

Instructions for Use

Surface Preparation: The steel to be treated must be free from dust, loosely adhered material, and plaster and cement droppings, grease oil and paints etc. Remove all rust and contamination by grit blasting or wire brushing. Ensure areas at the back of steel reinforcement are cleaned thoroughly. High-pressure washing will remove chlorides that may be present in surface pits and imperfections. Surfaces should be dry before application. Apply **TufBuild ZP** as soon as possible after preparation is complete.

Mixing: Thoroughly stir **TufBuild ZP** before use. This will re-disperse any settled pigments.

Application: Brush **TufBuild ZP** onto the prepared surface using a stiff brush. Ensure a full and uniform coverage is achieved. Brush well into irregular surfaces and pitted steel. Ensure full coverage around the back of steel reinforcement. A second coat may be applied, if required, after 1 hour. This may be relevant when the steel is of poor quality or the access to the steel is hampered.

Over-coating of the treated steel should be carried out as soon as possible after the coating is dry. This is particularly relevant in aggressive environments. Good site planning is required to coordinate reinforcement protection activities with other repair operations.





Cleaning

Clean all tools, equipment and mixers with **GIC Solvent No.1** immediately after use. Cured material should be removed mechanically.

Coverage

When used as a protective coating for steel reinforcement, 1 litre of **TufBuild ZP** will cover approx. 170 m of 16mm diameter steel.

Packaging & Storage

TufBuild ZP is supplied in 1 litre & 20 kg units and it has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

Health & Safety Precautions

TufBuild ZP does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

For further information refer to the Material Safety Data Sheet available for this product.

Important note

GIC endeavors to ensure that the technical information contained herein is true, accurate and represents our best knowledge and experience. No warranty is given or implied, as GIC has no control over the conditions of use and the competence of any labor involved in the application are beyond our control.

As all GIC technical data sheets are updated on a regular basis it is the customer's responsibility to check that the product is suitable for the intended application, and that the actual conditions of use are in accordance with those recommended.

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