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 Applications

- 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 galvanised metal.
- As a temporary coating for exposed structural steelwork.

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.
- Designed for use with the TufBuild repair products.

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific gravity</td>
<td>1.80 @ 35°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>15 poise</td>
</tr>
<tr>
<td>Pot life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Tack free time</td>
<td>20 mins @ 35°C</td>
</tr>
<tr>
<td>Overcoat time</td>
<td>60 mins @ 35°C</td>
</tr>
<tr>
<td>Application temp</td>
<td>+5°C to +50°C</td>
</tr>
<tr>
<td>Dry film thickness</td>
<td>55 microns (145 microns wet applied at 7 m²/litre)</td>
</tr>
<tr>
<td>Bond strength</td>
<td>Greater than concrete</td>
</tr>
<tr>
<td>Appearance</td>
<td>Silver-grey paint consistency liquid, cures to a smooth dense coating.</td>
</tr>
</tbody>
</table>

Specification Type

TufBuild ZP complies with the requirements of the following standard:

BS 4652 1971

Directions for Use

Surface Preparation: The steel to be treated must be free from dust, loosely adhered material, 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.

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 lm of 16mm diameter steel. NB: Drying times will be slower at temperatures below those stated.

Packaging & Storage

_TufBuild ZP_ is supplied in 1 litre units. When stored in cool, shaded warehouses, _TufBuild ZP_ has a shelf life of 9 months. Cans should be sealed and unopened.

Health & Safety

As with all GIC chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

Other Concrete Repair & Protection Products available from GIC.

_TufBuild HB-_: A single component, lightweight, polymer modified cementitious repair mortar for high build and overhead applications.

_TufBuild HS-_: A single component, cementitious high strength structural repair mortar.

_TufBuild FC-_: A single component, cementitious, polymer modified fairing mortar for re-profiling concrete surfaces.

_TufBuild MC-_: A shrinkage compensated, polymer modified pre-bagged micro concrete.

_TufBuild PS-_: A two component, acrylic modified, combined corrosion protection and bonding agent.

_TufBuild NF-_: A non-flow, general purpose, epoxy repair mortar and adhesive.

_TufCote CT-_: A two component, solvated coal tar modified epoxy resin protective coating.

_TufCote NT-_: A two component non-toxic, epoxy resin, protective coating. Suitable for use in potable water applications.

_TufCote SS-_: A highly penetrative silane syloxane based water repellant treatment for concrete.