



## TufCote CT 200

### Solvent Free Coal Tar Extended, Epoxy Resin Coating

#### Uses

Provides chemical and abrasion resistance to prevent corrosion of concrete surfaces for application such as

- Sea water tanks, channels and intakes
- Manhole linings
- Sewage works and effluent plants
- Chemical processing
- Foundation waterproofing
- Jetties, piers and docks.

#### Typical Applications & Advantages

- Excellent chemical and abrasion resistance.
- Low cost service life.
- Does not support bacterial growth.
- Acts as an impermeable waterproof coating.
- No primer required
- Can be applied to green concrete by brush, roller or spray.

#### Standard Compliance

TufCote CT 200 complies with the requirements of the following standards:  
ASTMD543  
BS1881 Part 207  
BS EN 12390 Part8: 2000

#### Product Description

**TufCote CT 200** is based on solvent free epoxy resins, modified with coal tar. It is supplied as a two pack material in pre-weighed quantities ready for on-site mixing and use. **TufCote CT 200** is applied as two coat application. It is generally applied at a wet film thickness of 200 microns per coat, but can be applied at greater thickness to suit exposure conditions.

#### Typical Properties

<b>Appearance of Part A</b>	: Clear liquid
<b>Appearance of Part B</b>	: Black viscous liquid
<b>Mixed density @25 °C</b>	: 1.35 gm/cc
<b>Bond strength</b>	: 3 N/mm <sup>2</sup>
<b>Water permeability</b>	: Nil
<b>Pot life</b>	: 75 minutes @ 25 °C
<b>Tack free time</b>	: 3hours @ 35°C
<b>Over coating time</b>	: 6 hours @ 35°C
<b>Complete cure</b>	: 7 days @ 25°C

#### 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 concrete to be treated must be free from dust, loosely adhered material, and plaster and cement droppings, grease oil and Paints etc. On old concrete ensure the substrate is structurally sound prior to application. Surface laitance will affect the adhesion of the coating; it is therefore recommended to grit blast all surfaces prior to application. Surface imperfections must be made good prior to application.

**Mixing:** - **TufCote CT 200** is supplied in two pre-weighed units consisting of Part A & Part B. The entire contents of Part A & Part B must be thoroughly mixed in their separate tins prior to mixing together. A slow speed drill with an appropriate mixing paddle is recommended. Mixing should continue until an even colour and consistency is achieved. It is not recommended to split pack sizes, as performance cannot be assured. Although **TufCote CT 200** is a non-Solvented product, it is still recommended that mixing should take place in a well ventilated area.

**Application:** **TufCote CT 200** should be applied by airless spray, brush or lamb's wool roller. Airless spray is the preferred method to accurately obtain the required DFT. Airless spray will also provide the greatest production rates and minimum wastage especially when large areas are to be coated. Application should be closely monitored to ensure an even pin hole free surface with complete background coverage. A minimum of 2 coat application is generally recommended. The first coat is applied to achieve a uniform coating with a wet film thickness not less than 200 microns. If the concrete surface is poor, consumption will be increased in the first coat. The second coat should be applied between 6 hours and 4 days after the application of the first coat achieving a wet film thickness not less than 200 microns.



### Hot weather working practices

Whilst the performance properties of **TufCote CT 200** at elevated temperatures are assured, application under such conditions can sometimes be difficult. It is therefore suggested that, for temperature above 35<sup>0</sup>c, the following guidelines are adopted as a prudent working regime:

1. Store unmixed materials in a cool environment, avoiding exposure to direct sunlight.
2. Keep mixing and placing equipment cool, arranging shade protection if needed. It is especially important to keep cool those surfaces of the equipment which will come in to contact with the material itself.
3. Try to eliminate application in the middle of the day, and certainly avoid application in direct sunlight.
4. For hand application, ensure that there are sufficient operatives available to complete application within the pot life of the material.

**Repairing and over coating:** Any application of **TufCote CT 200** which have become damaged can be readily over coated. The existing surface should well abraded, using a stiff wire brush, or similar to ensure that a good mechanical bond will be achieved between the two layers. Over coating works can then proceed as for new work, always ensuring that the prepared substrate is free from any moisture.

### Watch Points

1. **TufCote CT 200** should not be applied over other existing coatings, but can be applied on top of itself.
2. For cold weather working (down to 5<sup>0</sup>c), it is recommended that materials are stored in a heated building and only removed immediately before use. Accelerated heating methods are not to be utilized under any circumstances.
3. In contact with moisture/ high humidity during cure, the color of the coatings will change to brown/red.

### Coverage

Coverage rates vary according to the density, porosity and texture of the concrete to be treated. Higher coverage rates will be achieved on steel

substrates. Typically a coverage rate of 5 m<sup>2</sup>/litre/coat of 200 microns can be expected.

### Packaging & Storage

**TufCote CT 200** is supplied in 20 litre units and it has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

### Health & Safety Precautions

**TufCote CT 200** 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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