

# ShaliFerroBlack® BT

Water Based Bituminous Emulsion For Rails



## Description

**ShaliFerroBlack® BT** (formerly known as STP FerroBlack) is an economical water based Bituminous Emulsion Paint specifically designed for corrosion protection of rails, covered by India Patent No. 56192 conforming to Indian Railway Specn. IRSP: 30: 1996.

**ShaliFerroBlack® BT** is a colloidal clay type bituminous emulsion which can be applied in thick coats, even on vertical surfaces. It does not flow at high temperatures, nor does it lose its ductility when temperature is low.

## Characteristics

Colour	Black / Brownish Black	Dry film thickness per coat	175 microns
Consistency	Uniform; applicable by brush or spray gun	Theoretical Coverage On metal surface, gm / m <sup>2</sup> *	400
Drying Time, hr	8	Ash Content, % maximum	10
Mass in kg / 10 L	11 ±0.5	Resistant to acid / alkalis	Resistant
pH	5 - 6		

\* Depending upon surface condition.

## Application

- Widely used for anti-corrosive treatment of railway lines and steel surfaces.
- Proven to be equally effective in protecting the inside panels of all steel wagons and the steel work of bridges.
- Can be used on concrete structures after application of a self-priming coat at the rate of 1:1 dilution with water.

## Advantages

- Economical, proven and approved anti-corrosive product exclusively developed for tracks of Indian Railways and used for decades by Indian Railways.
- Protects railway tracks and all other MS structures from corrosion.
- Reduces replacement of railway tracks through enhanced longevity.
- Enhances passenger, good and train safety.
- Arrests losses arising out of corrosion.
- Pliable for long periods, despite temperature variations.
- Dries quickly, facilitating application of repeat coatings within a short time.
- Durable in service and able to withstand all normal working conditions.
- Minimize upkeep and maintenance costs, preserving and prolonging the life of rail / other steel surface.
- Applicable on moist concrete surfaces.
- Dries from bottom of coat outwards and can be applied in heavy single coats without sagging.

## Application Methodology

### ➤ Surface Preparation

- Remove rust, loose scales and foreign particles by wire-brushing, scraping, etc. brush tends to harden or clog, it should be thoroughly washed with water. No oil or paint contaminated brush should be used for applying **ShaliFerroBlack® BT**.
- In summer, if the rails are very hot causing difficulties in uniform brushing, it would be advisable to cool the primed rails with water. The excess water must be removed before

application of **ShaliFerroBlack® BT**. It may be noted that **ShaliFerroBlack® BT** adheres to damp surfaces.

#### ➤ **Material Preparation**

- Stir **ShaliFerroBlack® BT** by a slow speed mixture (approx. 400 rpm) fitted with a suitable mixing paddle to ensure a homogenous mix.
- After stirring, wait for the product to settle in order to let entrapped air escape.

#### ➤ **Application of Material**

- Prime the surface with one coat of TankMastic to seal the formation of rust and prevent it and lightly rub the surface, if glossy.
- Apply one coat diluted 1:1 with water while applying over concrete substrates.
- Apply the first coat of **ShaliFerroBlack® BT** at the rate of about 0.4 kg/m<sup>2</sup> on dried primed surface. Allow this coat of emulsion to dry for a minimum of 6 hr.
- Apply second coat and allow another 6 hours for drying.
- Apply third and final coat of **ShaliFerroBlack® BT** over the first two. This top coat provides maximum resistance to abrasion from ballast, sand and gives extended protection to the primer coat and interior coats of **ShaliFerroBlack® BT**.
- Repair damaged due to handling, if any, before the top coat and apply, during top coat, a thicker coat of **ShaliFerroBlack® BT** on sleepers at places where the rails rest and also on the fish plates, dog spikes, bolt heads and tie rods.
- Care should be taken that **ShaliFerroBlack® BT** coated rails are not exposed to rain within four hours of painting. Otherwise, the coating may get washed away necessitating repainting. While in use, wherever primer is exposed, patch-painting with **ShaliFerroBlack® BT** should be done only after removing dust, salts etc. by washing with water.

#### **Health & Safety**

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

#### **Packaging**

Available in 20 kg, 200 kg container.

#### **Storage**

Keep in cool and dry place, under shed, away from heat.



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