

# STP FerroBlack

Bituminous Emulsion for Rails / Steel Surfaces Protection



STP Limited

## Description

**FerroBlack** is an economical Bituminous Emulsion Paint for corrosion protection of rails and steel surfaces, covered by India Patent No. 56192 conforming to Indian Railway Specn. IRSP: 30: 1996. FerroBlack 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	8 hr	Ash Content	10% max
Mass in kg / 10 L	11 (±0.5 kg)	Resistant to acid / alkalis	Resistant
pH	5 - 6		

## Application

- Widely used for anti-corrosive treatment of railway lines and steel surfaces.
- Proved to be equally effective in protecting the inside panels of all steel wagons and the steel work of bridges.
- Protect concrete surfaces against acids, alkalis and water.

## Advantages

- Protects from corrosion, more so in corrosive soil and saline atmosphere particularly in coastal areas.
- 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
- Minimise upkeep and maintenance costs, preserving and prolonging the life of rail / other steel surface.
- Applicable on moist surfaces.
- Dries from bottom of coat outwards and can be applied in heavy single coats without sagging.

## Application Methodology

- 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 FerroBlack.
- 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 **FerroBlack**. It may be noted that **FerroBlack** adheres to damp surfaces.
- Prime the surface with one coat of TankMastic to seal the formation of rust and prevent it
- Lightly rub down the surface, if glossy.
- Apply the first coat of **FerroBlack** 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 **FerroBlack** 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 **FerroBlack**.

- Repair damaged due to handling, if any, before the top coat and apply, during top coat, a thicker coat of **FerroBlack** 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 **FerroBlack** 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 **FerroBlack** should be done only after removing dust, salts etc. by washing with water.

### Health & Safety

- Use goggles and hand gloves during application
- Clean hands with water after application.
- It is inflammable, non-toxic..

### Packaging

Available in 20 kg, 200 kg container.

### Storage

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

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