



**SHALIMAR
PAINTS**

TUFFKOTE

PROTECTIVE COATINGS

RUSTEX NO. 1

Data Sheet No. SPL/PMG/20191001131

A specially formulated graphite pigmented bituminous coating designed to prevent corrosion and pitting of 'hot-wet' metal surfaces in Boiler interiors, Evaporators, Tubes, Calorifiers and similar other plants operating with hot water and steam above 100°C . The cured coating is inert and highly impervious to hot water. It renders a surface to which deposits do not easily attach, and if attached, can be easily removed thereby simplifying cleaning and descaling operations.

Product Information

Color	Black
Finish	Matt
Flash Point	Above 30°C
Mixing Ratio (By Volume)	Single pack
Volume Solids	37 ± 2 %
Recommended dry film thickness	35 microns
Corresponding wet film thickness	95 microns
Theoretical Spreading Rate	10.67 Sq.m/ltr
Drying time @ 30°C	Surface dry 2- 4 hours Handle dry 8 – 10 hours Final curing 40 - 48 hours air drying followed by wet heat above 100°C for minimum 8 hours. This is essential for correct functioning of the coating.
Interval before Over- coating	Minimum 18 hours Maximum Indefinite
Volatile organic Compound (VOC)	540 gm/ltr (EPA Method 24)
Storage Life	12 months minimum@30°C if stored in a dry sealed container at shaded condition away from heat source and ignition warehouse storage condition
Wet Heat Resistance	Up to 540 °C

Surface Preparation

Steel Surface

Surface must be clean, dry & free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000. Abrasive blast clean to SA 2½ is recommended. If Abrasive blast cleaning is not possible it is recommended to hand tool/ power tool cleaning up St2 or St3 before application of this product.

Concrete Substrate

Ensure that the surface is cured for minimum 28 Days. Remove laitance, loose surface powder by light sand blasting. If blast cleaning is not feasible, roughen the surface by acid etching with 10% Hydrochloric Acid solution followed by thorough freshwater hosing to remove any residual acid. The surface should be perfectly dry and clean before applying this coat.

For damage area rectification please contact the Technical team of Shalimar Paints Limited.

Application Details

Method of Application

Air spray/Airless spray / Brush / Roller

Notes on Airless Spray

Tip Range	15 - 23 thou.
Total Output Fluid Pressure	2000 – 2500 psi. (141 - 176 kg/sq.cm.)
Thinner	Thinner 6751

Notes on Air Spray

Nozzle Orifice – 1.2 mm to 3 mm
Nozzle Pressure – 0.3-0.4 Mpa

Uses

Suitable for Internal surfaces including Boilers, Tubes, Evaporators, Steam turbine casings etc.

Typical System Selection Guide

SURFACE	1 ST COAT	2 ND COAT	3 RD COAT
Steel	RUSTEX NO. 1	RUSTEX NO. 1	RUSTEX NO. 1

Chemical Resistance Guide (with suitable top coat)

EXPOSURE	Acids	Alkalis	Salt	Water
SPLASH & SPILLAGE	Fair	Good	Good	Excellent
FUMES & OUTDOOR EXPOSURE	Fair	Very Good	Good	Excellent

Health & Safety

Use Proper Personal Protective Equipment(PPE) during application of this product.

Please consult Material Safety Datasheet (MSDS)

Precaution

Provide adequate ventilation during application and drying. Clean Spray gun equipment and hose immediately after application of material.

Standard Pack Size

1,4 & 20 litres - For available pack size contact local representative of Shalimar Paints Limited.

NOTES:

1. This Product datasheet supersedes all previous datasheet and subject to change without prior notice
2. Do not apply when surface temperature is less than 3 °C than dew point.
3. Mixing with mechanical agitator is strongly recommended
4. Do not apply paints when environment temperature rises above 50 °C or when relative humidity rises above 85%. Do not apply during rain, fog or mist.
5. Use of thinners other than supplied or approved by Shalimar may adversely affect product performance
6. Drying is dependent on temperature, relative humidity and thickness; ranges is given for considering those parameters
7. System Guide is a typical and for indicative purpose only, however this can have wide range of combination. For details, please contact Shalimar Paints limited
8. Request for details information of surface preparation, paint application on the recommended coating system

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