



**SHALIMAR  
PAINTS**

# TUFFKOTE

## PROTECTIVE COATINGS

### EPISHIELD ST GLASS FLAKE EPOXY COATING

Data Sheet No. SPL/PMG/2019100026

A two pack low VOC high build mastic surface tolerant epoxy coating reinforced with chemically inert glass flake for application on manually cleaned steel surface for enhanced durability and corrosion resistance of steel structures in all corrosive environment including splash zone areas of offshore structures. This product can be applied over most of the tightly adhering aged coatings and concrete surface. It is widely used as maintenance primer and self-priming finish.

#### Product Information

<b>Color</b>	Brown / Dark Grey (Arbitrary)
<b>Finish</b>	Semigloss
<b>Flash Point</b>	Above 20°C
<b>Mixing Ratio (By Volume)</b>	Base: Accelerator 2 : 1
<b>Volume Solids</b>	90 ± 3 %
<b>Recommended dry film thickness</b>	200 - 300 microns
<b>Corresponding wet film thickness</b>	220 - 335 microns
<b>Theoretical Spreading Rate</b>	4.5 – 3.0 Sq.m/ltr
<b>Drying time @ 30°C</b>	Touch dry      3 – 4 hours Handle dry     18 hours Full curing     7 days
<b>Interval before Over-coating</b>	Minimum    18 hours Maximum    Depends on conditions
<b>Volatile organic Compound (VOC)</b>	130 gm/ltr (EPA Method 24)
<b>Storage Life</b>	12 months minimum @ 30°C if stored in a dry sealed container at shaded condition away from heat source and ignition
<b>Dry Heat Resistance</b>	Up to 120°C (Intermittent)

#### Uses

Maintenance painting for Drilling Rigs and Platforms Fertilizer Plants, onshore and offshore structures, Chemical Factories, Refineries, Petrochemical units, Marine & Port Installations.

#### Surface Preparation

##### Steel

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

This product is recommended to apply over SA1 abrasive cleaning and also hand/power tool cleaning to St2 (ISO 8501-1:1988)

This product can so be applied on the aged coating after removing loose coating.

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

#### Application Details

##### Method of Application

Brush / Roller / Airless Spray

##### Notes on Airless Spray

Tip Range	21 – 29 thou.
Total Output	2100-2500 psi.
Fluid Pressure	(147-196 kg/sq.cm.)
Pot Life	6 - 8 hours
Thinner	Thinner 6756

#### Limitations

The finish tends to chalk when prolonged exposure to sunlight although protective properties of the film remain practically unaffected.

## Typical System Selection Guide

SURFACE	1 <sup>ST</sup> COAT	2 <sup>ND</sup> COAT	3 <sup>RD</sup> COAT	4 <sup>TH</sup> COAT
<b>Steel</b>	Epishield ST Glass Flake Epoxy Coating	Epishield ST Glass Flake Epoxy Coating	Epishield Glass Flake Epoxy Coating	Epishield Glass Flake Epoxy Coating
<b>Concrete Surface</b>	Epishield ST Glass Flake Epoxy Coating	Epishield ST Glass Flake Epoxy Coating	Epishield Glass Flake Epoxy Coating	Epishield Glass Flake Epoxy Coating

## Chemical Resistance Guide (with suitable top coat)

EXPOSURE	Acids	Alkalis	Solvents	Salt	Water
<b>SPLASH &amp; SPILLAGE</b>	Good	Excellent	Good	Excellent	Excellent
<b>FUMES &amp; OUTDOOR EXPOSURE</b>	Good	Excellent	Very Good	Excellent	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

15 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. Use material within stipulated potlife
5. 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.
6. Use of thinners other than supplied or approved by Shalimar may adversely affect product performance
7. Drying is dependent on temperature, relative humidity and thickness; ranges is given for considering those parameters
8. 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
9. Request for details information of surface preparation, paint application on the recommended coating system

**DISCLAIMER:** This PDS is by no means a comprehensive data. The company will not be liable for losses or damages howsoever caused including liability for negligence, which may be suffered by the user of the data contained therein. It is the user's responsibility to conduct all necessary tests to confirm the suitability of any product or system for their intended use. No guarantee of result is extended since conditions of use are beyond our control. Liability is limited to replacement of the product hence cost of labour charges or consequential damages are excluded.