



**SHALIMAR
PAINTS**

TUFFKOTE

PROTECTIVE COATINGS

TUFFKOTE ZILICATE Z85

Data Sheet No. SPL/PMG/2019100035

A two component moisture cured based inorganic ethyl zinc silicate primer. It exhibits excellent corrosion protection and complies with the composition and performance requirements of SSPC Paint 20 Level 1. It provides a tough coating and renders outstanding galvanic protection to steel. It is suitable for wide range of suitable topcoat. It also act as primer for 400 Degree temperature resistance.

Product Information

Color	Grey
Finish	Matt
Flash Point	Above 15°C
Mixing Ratio (By Volume)	Binder : Powder 15.80 : 4.20
Volume Solids	65 ± 3 %
Recommended dry film thickness	65 – 75 microns
Corresponding wet film thickness	100 – 115 microns
Theoretical Spreading Rate	10.0 – 5.65 Sq.m/ltr
Drying time @ 30 °C	Touch dry 30 minutes Handle dry 4 – 6 hours Full cure 7 days
Interval before Over-coating	Minimum 24 hours Maximum Indefinite Full Curing 7 days
Volatile organic Compound (VOC)	350 gm/ltr (EPA Method 24)
Dry Heat Resistance	Up to 400°C
Over-coating @30°C	24 Hours
Storage Life	6 months minimum @ 30°C if stored in dry sealed container at shaded condition away from heat source and ignition

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. No other mode of surface preparation is acceptable. Surface profile not to exceed 65 microns.

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

Application Details

Method of Application

Airless spray

Notes on Airless Spray

Tip Range	15 – 21 thou.
Total Output Fluid	1700 - 2300 psi.
Pressure	(120 - 162 kg/sq.cm.)
Pot Life	4 – 6 hours
Thinner	Zilicate Thinner 6761

Limitations

Being Zinc based, the coating is not resistant to acid and alkali solutions

Uses

Suitable as primer coat for heavy duty systems for Structural Steel, Pipelines, interior and exterior of storage tanks for Fertilizer plants, Refineries & Petrochemical units, Chemical units, Offshore Platforms, Power Plants etc at highly corrosive area.

Typical System Selection Guide

SURFACE	1 ST COAT	2 ND COAT	3 RD COAT	4 TH COAT
Steel	TUFFKOTE ZILICATE Z85	Epigard HB MIO	Epigard 4 Finish/ Shalithane Finish/ Shalithane HBN Finish	Epigard 4 Finish/ Shalithane Finish/ Shalithane HBN Finish
- Do -	- do -	Lustrotherm HT 400	Lustrotherm HT 400	-

Chemical Resistance Guide (with suitable top coat)

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

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

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. Use material within stipulated pot life
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

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