



**SHALIMAR
PAINTS**

TUFFKOTE

PROTECTIVE COATINGS

ZILICATE 20 FD

Data Sheet No. SPL/PMG/2019100035

A two component inorganic ethyl zinc rich inorganic primer having extra very fast cure properties. This product meets all composition and performance requirements of SSPC Paint 20 Level 1 and cured with moisture. This is most suitable as galvanic protection to steel. This also provide temperature resistance to 540 Deg C when it is suitably top coated.

Product Information

Color	Grey
Finish	Matt
Flash Point	Above 15°C
Mixing Ratio (By Volume)	Binder : Powder 3.65: 1.0
Volume Solids	62 ± 3 %
Recommended dry film thickness	50 – 75 microns
Corresponding wet film thickness	80 – 121 microns
Theoretical Spreading Rate	12.4 – 8.26 Sq.m/ltr
Drying time @ 30 °C	Touch dry 30 minutes Handle dry 4 – 6 hours Full cure 7 days
Interval before Over-coating@ 30°C	Minimum 7 hours Maximum Indefinite Full Curing 7 days
Volatile organic Compound (VOC)	350 gm/ltr (EPA Method 24)
Dry Heat Resistance as single coat	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 – 23 thou.
Total Output Fluid	1700 - 2300 psi.
Pressure	(120 - 162 kg/sq.cm.)
Pot Life	3 – 4 hours
Thinner	Zilicate Thinner 6761

Air spray – not recommended due to high zinc content

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	Zilicate 20 FD	EPICURE 120 FD	Shalithane 57 UV/Shalithane HPUV	Shalithane 57 UV/Shalithane HPUV
- Do -	Zilicate 20 FD	LUSTROTHERM 45 SILICONE ALUMINIUM	LUSTROTHERM 45 SILICONE ALUMINIUM	-
-Do-	Zilicate 20 FD	EPICURE 200	Epigard XL HB / Epigard Finish / Shalithane HBN finish	Epigard XL HB / Epigard Finish / Shalithane HBN finish

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 below 40 % curing retard drastically; an added curing agent may require to maintain faster drying
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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