



**SHALIMAR
PAINTS**

TUFFKOTE

PROTECTIVE COATINGS

EPIGARD 5 HIGH BUILD MIO

Data Sheet No. SPL/PMG/2019100010

A two pack polyamide cured high solid epoxy coating based on laminar micaceous iron oxide (MIO) pigment. Designed for application on structural steel as an intermediate coat exposed to industrial environment. The product acts as a tough abrasion resistant barrier coat with excellent impermeability to moisture. The grey version contains Titanium dioxide pigment apart from MIO pigment.

Product Information

Color	Brown / Grey
Finish	Matt to Eggshell
Flash Point	Above 20°C
Mixing Ratio (By Volume)	Base : Accelerator 5 : 1
Volume Solids	60 ± 3 %
Recommended dry film thickness	100 - 125 microns
Corresponding wet film thickness	166 - 208 microns
Theoretical Spreading Rate	6.0 – 4.8 Sq.m/ltr
Drying time @30°C & RH -50	Surface dry 2 - 4 hours Handle dry 16 – 18 hours Full cure 7 days
Interval before Over-coating	Minimum 18 hours Maximum Indefinite
VOC	350 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.
Dry Heat Resistance (Intermittent)	Up to 150°C

Surface Preparation

Steel Surface

Surface 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.

It is always recommended to apply suitable primer coat before application of this product. Ensure surfaces to be coated is dried and followed over-coating interval and if required sufficiently roughened by emery paper. This product can be applied Hand & Power tool cleaning to St2 & St3.

For damage area rectification contact the Technical team of Shalimar Paints limited

Application Details

Method of Application

Airless spray / Brush / Roller

Notes on Airless Spray

Tip Range	21 – 29 thou.
Total Output	2500 – 3500 psi.
Fluid Pressure	(176 - 246 kg/sq.cm.)
Pot Life	3-4 hours
Thinner	Thinner 6756

For Air Spray please contact the Technical team of Shalimar Paints Limited.

Uses

Recommended as intermediate in medium corrosive area and in Fertilizer Plants, Power & Gas Plants, Refineries, Offshore Structures Bridges and Cranes , Ore Handling Projects , Mining & Machinery Units .

Typical System Selection Guide

SURFACE	1 ST COAT	2 ND COAT	3 RD COAT	4 TH COAT
Steel	Epigard Zinc Rich / Zilicate IZS / Epigard Zinc Phosphate Primer	Epigard 5 HB MIO	Epigard 4 Finish	Epigard Finish / Epigard XL HB Finish
- Do -	Epiplus 566 HB/ Epiplus 556 SHB	Epigard 5 HB MIO	Bipigard CTE XL Black / Bipigard 580 HB CTE Black	Bipigard CTE XL Black / Bipigard 580 HB CTE Black

Chemical Resistance Guide (with suitable top coat)

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

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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