



**SHALIMAR  
PAINTS**

# TUFFKOTE

## PROTECTIVE COATINGS

### EPIGARD HB MIO

Data Sheet No. SPL/PMG/20191000091

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 for 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

<b>Color</b>	Brown/ Grey
<b>Finish</b>	Eggshell
<b>Flash Point</b>	Above 23°C
<b>Mixing Ratio (By Volume)</b>	Base : Accelerator 4 : 1
<b>Volume Solids</b>	60 ± 3 %
<b>Recommended dry film thickness</b>	100 - 125 microns
<b>Corresponding wet film thickness</b>	166 – 208 microns
<b>Theoretical Spreading Rate</b>	6.9 – 5.2 Sq.m/ltr
<b>Drying time @ 30°C &amp; RH -50</b>	Surface dry      2-4 hours Hand Dry        16 – 18 hours Full curing       7 days
<b>Interval before Over- coating @ 30°C &amp; RH -50</b>	Minimum          1 8 hours Maximum          Indefinite
<b>Volatile Organic Compound (VOC)</b>	350 gm/ltr (EPA Method 24)
<b>Storage Life</b>	12 months minimum @ 30°C if stored in dry sealed container at shaded condition away from heat source and ignition.
<b>Dry Heat Resistance</b>	Up to 150°C (Intermittent)

## 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 after 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 moderate 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 <sup>ST</sup> COAT	2 <sup>ND</sup> COAT	3 <sup>RD</sup> COAT	4 <sup>TH</sup> COAT
Steel	Epigard Zinc Rich / Tuffkote Zilicate CGC / Epigard Zinc Phosphate Primer	Epigard HB MIO	Epigard Finish	Epigard Finish / Epigard XL HB Finish
- Do -	-do-	Epigard HB MIO	Epigard XL HB	Shalithane Finish

## 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 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.