



**SHALIMAR
PAINTS**

TUFFKOTE

PROTECTIVE COATINGS

BIPIGARD CTE XL

Data Sheet No. SPL/PMG/2019100060

A two component polyamide cured high build coal tar epoxy paint giving very good toughness and water resistance. The product performs very good total, partial or intermittent immersion in salt or fresh water. It stands corrosive conditions in soil immersion and also certain acidic and alkaline environments.

Product Information

Color	Brown / Black
Finish	Eggshell
Flash Point	Above 23°C
Mixing Ratio (By Volume)	Base : Accelerator 3 : 1
Volume Solids	65 ± 3 %
Recommended dry film thickness	80 - 110 microns
Corresponding wet film thickness	123 – 169 microns
Theoretical Spreading Rate	8.14 – 5.91 Sq.m/ltr
Drying time @ 30°C	Surface dry 12 – 14 hours Handle dry 24 hours Full cure 7 days
Interval before Over- coating	Minimum 48 hours Maximum 7 days
Volatile organic Compound (VOC)	300 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

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. If Abrasive blast cleaning is not possible it is recommended to hand tool/ power tool cleaning up St2 or St3 before application of this product.

Concrete Substrate

Ensure that the surface is cured for minimum 28 Days. Remove laitance, loose surface powder by light sand blasting. If blast cleaning is not feasible, roughen the surface by acid etching with 10% Hydrochloric Acid solution followed by thorough freshwater hosing to remove any residual acid. The surface should be perfectly dry and clean before applying this coat.

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 Fluid	2500-3000 psi.
Pressure	(210 kg/sq.cm.)
Pot Life	6 - 8 hours
Thinner	Thinner 6756

Uses

For use as topcoat in Internal and external coating of Pipe. Is also suitable as topcoat for Sluice gate, Barrage Gates, Pipes, Penstocks, Storage Tank, Structural Works in Power Plants, Fertilizer Plants, Chemical Factories and Concrete bridges etc

Typical System Selection Guide

SURFACE	1 ST COAT	2 ND COAT	3 RD COAT
Steel	Epigard Zinc Rich / Epigard Zinc Phosphate Primer	Bipigard CTE XL	Bipigard CTE XL
- Do -	Epiplus 556	Bipigard CTE XL	Bipigard CTE XL
Concrete Surface	Epigard HP Off White Primer / Bipigard CTE XL	- do -	- do -

Chemical Resistance Guide (with suitable top coat)

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

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.