



**SHALIMAR  
PAINTS**

# TUFFKOTE

## PROTECTIVE COATINGS

### LUSTROTHERM HT 500 SILICONE ALUMINIUM

Data Sheet No. SPL/PMG/20191000311

A single pack high performance heat resistant aluminium paint based on silicone resin medium for protection of steel surface operating between 250°C – 500°C dry heat.

#### Product Information

<b>Color</b>	Aluminium
<b>Finish</b>	Bright metallic
<b>Flash Point</b>	Above 23°C
<b>Volume Solids</b>	15 ± 2 %
<b>Recommended dry film thickness</b>	15 - 20 microns
<b>Corresponding wet film thickness</b>	100 - 133 microns
<b>Theoretical Spreading Rate</b>	10 - 7.5 Sq.m/ltr
<b>Drying time</b>	Dust free - 4 hours
<b>Curing</b>	Apply 1 <sup>st</sup> coat. Air dry for 24 hrs. Alternatively heat cure at 200°C for 1 hour after 4 hours of air drying. Apply 2 <sup>nd</sup> coat. Allow it to dry overnight and then gradually raise the temperature to working temperature.
<b>VOC</b>	750 gm/ltr (EPA Method 24)
<b>Storage Life</b>	12 months minimum @ 30°C if stored in a dry sealed container at shaded condition away from heat source and ignition
<b>Dry Heat Resistance</b>	250°C - 400° 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 overcoating interval and if required sufficiently roughened by emery paper.

This product can be applied over Hand & Power tool cleaning to St2 & St3

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

#### Application Details

##### Method of Application

Brush / Conventional Spray

##### Notes on Air Spray

Nozzle Orifice – 0.8 mm to 1.2 mm

Nozzle Pressure – 0.3-0.4 Mpa

Thinner | 6752

#### Uses

Suitable as topcoat for Chimneys, Flare Stacks, Exhausts, Pipe works, Incinerators and similar surfaces exposed to dry heat attack @ 400°C.

## Typical System Selection Guide

SURFACE	1 <sup>ST</sup> COAT	2 <sup>ND</sup> COAT	3 <sup>RD</sup> COAT
Steel	Tuffkote Zilicate CGC/Z85	LUSTROTHERM HT 500 SILICONE ALUMINIUM	LUSTROTHERM HT 500 SILICONE ALUMINIUM
- Do -	LUSTROTHERM HT 500 SILICONE ALUMINIUM	LUSTROTHERM HT 500 SILICONE ALUMINIUM	-

## Chemical Resistance Guide (with suitable top coat)

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

1,4 & 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. 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.
5. Use of thinners other than supplied or approved by Shalimar may adversely affect product performance
6. Drying is dependent on temperature, relative humidity and thickness; ranges is given for considering those parameters
7. 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
8. 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.