

**BERGER****PRODUCT SPECIFICATIONS****LUXATHERM 1600**

Silicone Zinc Heat Resisting Primer

**PRODUCT DESCRIPTION**

A two component, heat resistant primer formulated based on a modified silicone binder and pigmented with zinc dust.

**DESIGN FEATURES**

A heat resistant primer coating for use on steel substrates subjected to temperatures of up to 600°C in a wide range of industrial environments, e.g. petrochemical plants, power stations, offshore structures etc.

Designed to be overcoated with Luxatherm 5200, Luxatherm 5600 or Luxatherm 6200 heat resistant finishes.

Air dries tack-free at room temperature. Achieves fully cured state on subsequent baking, normally achieved when coated component is brought into service.

Excellent adhesion to steel with outstanding anti-corrosive performance.

**PHYSICAL CHARACTERISTICS**

Recommended Application Data Theoretical Coverage	Wet [µm]	Dry [µm]	m <sup>2</sup> /l
	77	40	13
Volume solids	52% (based on ASTM D2697)		
Dry Film Thickness Range	40 µm to 50 µm		
Flash Point	38 °C		
Finish	Matt		
Colour Range	Grey		
Standard Packing Size	5 litres set ( 4.74 litres Base : 1.85 kg Pigment )		
Mix Ratio	4.74 litres Base : 1.85 kg Pigment		

**APPLICATION METHOD**

AIRLESS SPRAY Recommended method of application	Tip Size	: 0.48–0.53 mm ( 19 – 21 thou )
	Pressure	: 140 –165 kg/cm <sup>2</sup> ( 2000 – 2400 psi)
	Remove filters/strainers from airless spray equipment before application. Sieve the mixed paint through a 60-mesh filter before application to prevent clogging of the spray tip.	
BRUSH OR ROLLER	May be used.	
*Note: Mix the pigment component slowly into the binder component while stirring using a mechanical stirrer / agitator to ensure a homogenous mix. free from lumps.		

**DRYING & CURING TIME**

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Minimum	Maximum	
15 °C	15 minutes	2 hours*	32 hours	Indefinite	32 hours
25 °C	10 minutes	1 hour*	16 hours	Indefinite	24 hours
35 °C	5 minutes	30 minutes*	8 hours	Indefinite	16 hours
* The times stated are handle dry times and not curing times. This product will cure only when the temperature is raised to above 200°C for a minimum of 5 hours. This is normally achieved when the coated item is brought into service.					

**USEFUL INFORMATION**

THINNER	: SOLVALUX 7-25 (Maximum 5% addition)
CLEANER	: SOLVALUX 7-25
STORAGE	: Store in a cool dry shaded area.



# BERGER PRODUCT SPECIFICATIONS

## SURFACE PREPARATION

The service life span and the service performance of Luxatherm 1600 is directly related to the degree of surface preparation.

### STEEL

This product should be applied to an abrasive blast cleaned steel surface. If this is not carried out effectively, contaminants present on the steel surface can cause loss of adhesion of the coating system when the temperature is raised when the coating is brought into service.

- Remove all wax, oil and grease by solvent cleaning in accordance to guidelines given by SSPC-SP1.
- Where necessary remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface.
- Abrasive blast clean to a minimum standard of Sa2½ (ISO 8501-1:1988) or SSPC-SP10.
- Any surface defects revealed by blast cleaning should be ground, filled or treated in a suitable manner.
- An average surface profile of 50 microns is acceptable but this average should not exceed 75 microns.
- After blasting, remove dust from the surface.
- The surface to be coated must be clean and dry.
- Apply Luxatherm 1600 immediately after blasting to prevent oxidation and recontamination of the steel surface. In case of oxidation or recontamination, re-blast to the required standard.

To avoid condensation of moisture onto substrate prior to coating application, relative humidity should not exceed 85% and substrate temperature should be more than 3°C above Dew Point.

<b>SUITABLE FINISHES</b>	Luxatherm 5200, Luxatherm 5600, Luxatherm 6200
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## NOTES

- The coating specifications given above are typical. For specific recommendations to suit individual applications, please refer to your Berger Paints representative.
- Do not overapply this coating. Over-application may lead to blistering and delamination in service.

## SAFETY PRECAUTION

Avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use barrier cream.

Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe in vapour or spray mist.

This product is flammable. Keep away from sources of ignition. Do not smoke.

Take precautionary measures against static discharge.

In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

## FIRST AID

**Eyes** : In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.

**Skin** : Wash skin thoroughly with soap and water or approved industrial cleaner. Do Not Use solvents or thinners.

**Inhalation** : Remove to fresh air, loosen collar and keep patient rested.

**Ingestion** : In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

## DISCLAIMER

*The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.*