



# BERGER

# PRODUCT SPECIFICATIONS

## EPILUX 171

Epoxy Anti-Corrosive Multi Substrate Primer

### PRODUCT DESCRIPTION

A two pack versatile epoxy primer suitable for use on both steel and other metal substrates for excellent protection against corrosion in industrial and marine environments.

### DESIGN FEATURES

Excellent long term anti-corrosive performance.  
 Excellent adhesion to various metal surfaces such as steel, galvanized steel, aluminium etc.  
 Fast drying with rapid handling and overcoating times  
 Suitable for over-coating with epoxy, vinyl, chlorinated-rubber & polyurethane topcoats.

### PHYSICAL CHARACTERISTICS

Recommended Application Data	Wet [ $\mu\text{m}$ ]	Dry [ $\mu\text{m}$ ]	$\text{m}^2/\text{l}$
	Theoretical Coverage	88	50
Volume solids	57 % (based on ASTM D2697)		
Dry Film Thickness Range	50 $\mu\text{m}$ to 75 $\mu\text{m}$ per coat		
Flash Point	> 25°C		
Finish	Matt		
Colour Range	Red Aluminium		
Standard Packing Size	5 litres set (3.75 litres Base : 1.25 litres Hardener) 20 litres set (15 litres Base : 5 litres Hardener)		
Mix Ratio (by volume)	3 Base : 1 Hardener		

### APPLICATION METHOD

AIRLESS SPRAY Recommended method of application	Tip Size : 0.38 – 0.53 mm (15 – 21 thou) Pressure : 110 – 160 kg/cm <sup>2</sup> (1600 – 2300 psi)
CONVENTIONAL AIR SPRAY	May be used. May require additional dilution to achieve good atomisation.
BRUSH OR ROLLER	May be used. However, additional coats may be required to achieve the recommended film thickness. Suitable for stripe coating, weld-seams, edges, corners, rivets, etc.

### DRYING & CURING TIME

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval		Pot Life
			Minimum	Maximum	
15 °C	2 hour	10 hours	16 hours	3 months	9 hours
25 °C	1 hour	6 hours	8 hours	3 months	6 hours
35 °C	45 minutes	4 hours	6 hours	3 months	3 hours

### USEFUL INFORMATION

THINNER	: SOLVALUX 7-45 (Maximum 5% Addition)
CLEANER	: SOLVALUX 7-77
STORAGE	: Store in a cool dry shaded area.
SHELF LIFE AT 25 °C	: 12 months minimum when stored as prescribed in the MSDS.



## SURFACE PREPARATION

The service life span and the service performance of EPILUX 171 is directly related to the degree of surface preparation.

### STEEL

- Remove all wax, oil and grease by solvent cleaning in accordance with the 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 or alternatively, hydro-blast to DW-3 according to STG-2222 with a minimum water pressure of 1000 bar (15000 psi).
- Apply Epilux 171 immediately after the steel has been blasted and the quality of preparation has been approved.

### ALUMINIUM

- Solvent cleaning according to SSPC-SP1 followed by light blast cleaning with a fine grade abrasive or by chemical etching.

### GALVANIZED / ZINC PRIMED STEEL

- Remove zinc salts by power or hand tool cleaning followed by solvent cleaning to SSPC-SP1.

### REPAIR

- Corroded areas should be power tool cleaned to St3, blast cleaned to Sa2 or better hydro-blasted to DW 2-3. Existing should be dry and free from loose paint, salt, grease and other contaminants prior to overcoating.

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.

## SUITABLE OVERCOATS

Epilux 218, Epilux 58, Epilux 58HS, Epimastic 3000HS, Epimastic 3100, Epimastic 5100, Epilux 82, Luxol 5000, Epilux 4, Luxathane 5075, Luaxthane 5150HS, Luxthane 5000HB, Epilux 155, Epilux 155SF, Epilux 518, Epilux 815, Epilux 816, Epilux 816SF

## NOTES

- For details of other systems, consult your Berger Paints representative.
- Common to all epoxies this product will experience chalking on prolonged exposure to sunlight. However, this phenomenon is not detrimental to coating performance.
- Exposure to very low temperatures, high humidity or water ponding during and/or immediately after application may result in incomplete cure and/or discolouration that may compromise subsequent intercoat adhesion

## 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.*