



BERGER PRODUCT DATA SHEET

LUXATHANE 5160

Acrylic Polyurethane High Durable Finish

PRODUCT DESCRIPTION

A two-component, high build, aliphatic isocyanate cured acrylic polyurethane high durable finish.

DESIGN FEATURES

A high performance finishing coat for structural steel in aggressive and corrosive environments such as onshore and offshore steel superstructures, pipelines and bridges etc. Also suitable as a finishing coat for concrete surfaces where high durability is desired.

Easy maintenance coating with long term recoatability properties.

Excellent colour and gloss retention.

Excellent flow and levelling properties.

Resistant to spillage or splashes of mild chemicals.

Able to achieve a film build of 75µm in a single coat application.

Excellent UV resistance and overall durability properties.

PHYSICAL CHARACTERISTICS	Recommended Application Data			
	Theoretical Coverage	Wet [µm]	Dry [µm]	m ² /l
		125	75	8.4
Volume solids	63 ± 2 % (based on ASTM D2697)			
Dry Film Thickness Range	50 µm to 75 µm			
Flash Point	29 °C			
Finish	Gloss			
Colour Range	Refer to our Standard Colour Card			
Standard Packing Size	5 litres set			
Mix Ratio (by volume)	6.4 Base : 1 Hardener			

APPLICATION METHOD

AIRLESS SPRAY	Tip Size : 0.43– 0.53 mm (17 -21 thou)
Recommended method of application	Pressure : 110 –150 kg/cm ² (1600 – 2100 psi)
CONVENTIONAL AIR SPRAY	May be used.
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	3 hours	24 hours	12 hours	Indefinite	6 hours
25 °C	2 hours	12 hours	6 hours	Indefinite	3 hours
35 °C	1 hour	6 hours	3 hours	Indefinite	2 hours

USEFUL INFORMATION

THINNER	: SOLVALUX 7-73 (Maximum 5% addition)
CLEANER	: SOLVALUX 7-77
STORAGE	Store in a cool dry shaded area.
SHELF LIFE AT 25 °C	: 24 months for base/ 12 months for Hardener



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SURFACE PREPARATION

The service life span and the service performance of LUXATHANE 5160 are directly related to the degree of surface preparation.

STEEL

- For optimum performance, this product should be applied to a surface that has been blast cleaned and suitably primed and built (e.g. with EPILUX or EPIMASTIC or ZINANODE)
- For recoating application, underlying system should be sound and undamaged.
- Ensure that the surface to be over-coated is clean, dry, and free from dust, grease and oil, or any other surface contaminants.
- Always ensure the maximum over-coating time for the primer or build-coat has not been exceeded prior to application.

ALUMINIUM, GALVANISED STEEL

- Degrease with SOLVALUX 7-45 and where practical abrade lightly to increase anchoring sites and improve adhesion. Apply one coat of Etch Primer followed by one coat of a suitable build coat.

CONCRETE

- New concrete should be left for at least 21 days to cure before coating.
- The moisture content of the concrete surface should be checked and ensured to be below 6% when measured with a reliable moisture meter, such as the Sovereign Moisture Meter.
- The surface should be dry, free from surface contaminants, sound and undamaged.
- Apply one coat of suitable concrete primer/sealer such as Berger Plastaseal or Epimastic 3000HS before applying Luxathane 5160.

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 UNDERCOATS

Berger Plastaseal, Epilux 610, Epilux 78, Epilux 171, Epilux 219, Epilux 800, Epilux 218, Epilux 58, Epilux 58HS, Epilux 82, Epimastic 3000HS, Epimastic 3100, Epimastic 4100, Epimastic 5100, Epimastic 7100, Luxaprime 1501, Luxaprime 1801.

NOTES

- The coating specifications given above are typical. For specific recommendations to suit individual applications. Please refer to your Berger Paints representative.
- Condensation occurring during or immediately after application may result in a drop in gloss and inferior film properties.
- Do not apply this product when the pot-life is exceeded, even if the paint still appears liquid.
- Premature exposure to ponding-water will cause colour change, especially with dark colours and at low temperatures.

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.