

Technical Data Floor Coating

Luxaflor 4100

Solvent Based Polyurethane Floor Coating

Product Description

A two pack acrylic polyol and aliphatic isocyanate based polyurethane floor topcoat. Features: Resistant to exterior environment condition with good mechanical properties.

- Excellent gloss and colour retention.
- Good water, chemical and abrasion resistance.

Designed Use

- As an abrasion resistant floor topcoat for light foot traffic environments such as ramps, walkways and steps.
- Can be used over epoxy systems and epoxy screeds as a final coat.

Physical Data

Volume Solids (Based on ASTM D2697)	: 45% + 2%
Typical Dry Film Thickness	: 40 microns
Wet Film Thickness	: 90 microns
Theoretical Coverage	: 11.00 m ² /litre @ 40 microns DFT
Colour	: Limited colours
Finish	: Gloss

Application Details - Method Of Application

Airless Spray	: This is a possible method of application Maximum 10% Thinner may be added. Tip Size: 0.38 - 0.48 mm (0.015 - 0.019 in). Pressure: 110 - 160 kg/cm ² (1600 - 2300 psi).
Brush or Roller	: This is the recommended method of application. Thinner maximum 5% may be added.

	Surface Temperature	Touch Dry	Hard Dry	Re coating Interval		Pot Life
				Minimum	Maximum	
Drying time	15°C	5 hours	36 hours	24 hours	Indefinite	10 hours
	25°C	3 hours	24 hours	16 hours	Indefinite	5 hours
	35°C	2½ hours	16 hours	10 hours	Indefinite	4 hours
	45°C	1½ hours	10 hours	8 hours	Indefinite	2 hours

No. of Components	Two
Mixing Ratio	7 parts Base to 1 part hardener (by volume)
Application Conditions	Do not apply this product if the relative humidity exceeds 85% or if the substrate temperature is within 3°C of the dew point

Additional Information

Thinner/Cleaning solvent	: Solvalux 7-73
Storage Instruction	: Store in a cool shaded dry area
Flash Point	: Mixed 28°C
Packaging	: 5 litres and 20 litres
Shelf Life	: 24 months from the date of manufacture of base and 6 months from the date of manufacture for hardener

Surface Preparation

- The performance of the coating is directly proportional to the degree of surface preparation.
- Ensure the surface is clean, dry and free from all contaminants.
- New concrete surfaces must be cured at least 4 weeks before application of primer.
- The surface should be sound and free from any laitance.
- If any laitance found remove using wire brush or by sweep blast.
- For best performance on new concrete surfaces, acid etching may be used. The surface should be treated with 10 – 15% dilute hydrochloric acid. Keep overnight and clean surface thoroughly with sweet water. The washing must be continued till the acidity becomes neutral. Use PH paper to ascertain the level of acidity.
- Blowholes should be filled with Epilux Concrete filler/stopper/putty or any other suitable flooring compound before application.
- One coat of Luxaflor 1100 to be applied at 50 microns followed by 2 coats (80 – 100micron) for light foot traffic.
- For Car park areas with colour retention, over 50 micron Luxaflor 1100, one coat of Luxaflor 4000 can be applied at 200 – 300 micron DFT and then Luxaflor 4100 can be applied at 50 – 100 micron depending upon the requirement.
- For Detailed system recommendation and application, please contact Sales Representative.

Product Use Restrictions

- May also be applied between 40 and 50 Microns DFT per coat.
- This is not suitable for heavy duty environments.
- Not suitable for industrial and factory floors where high chemical and abrasion resistance are required.

Surface Preparation

Safety Precautions

- Avoid contact with skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use a barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray.
- 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.
- Refer to MSDS for further information.

First-Aid

- Eyes : In the event of accidental splashes, flush eyes with water immediately and obtain medical advice.
- Skin : Wash skin thoroughly with soap and water or approved industrial cleaner. Do not use solvent or thinners.
- Inhalation: Move patient to fresh air, loosen collar and keep patient rested.
- Ingestion : In case of accidental ingestion, do not induce vomiting. Obtain immediate medical attention.

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.

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