

Litacoat Frost U

Description

This is a two component chemically curing aliphatic acrylic polyurethane coating. It is fast drying. To be used as topcoat in atmospheric environments. It can be applied at subzero surface temperatures.

Typical use

Marine: Recommended for topside, deck and superstructure.

Protective: Recommended for offshore environments, refineries, power plants, bridges and buildings. Suitable for a wide range of industrial structures C2 - C5, CX (ISO 12944-2) categories.

Other variants available

Litacoat Classic, Litacoat Frost
Refer to separate TDS for each variant

Colors

According to color card and Multicolor Industry tinting system (MCI)

Product data

Solids by volume	58±2%
Gloss level (GU 60°) (ISO 2813)	Semi-Gloss (30-70)
Flash point (ISO 3679 Method 1)	26°C
Density	1.35 kg/l

The provided data is typical for factory-produced products, subject to slight variation depending on color. All data is valid for mixed paint. Gloss description is subject to Litum definition.

Film thickness per coat

Typical recommended specification range

Dry film thickness	50-100 µm
Wet film thickness	90-172 µm
Theoretical spreading range	11.6-5.8 m ² /l

Bright / signal colors may need film thickness in the high end of the recommended specification range to achieve opacity.

Special effect colors may have diverging specification range. For additional information contact nearest Litum office.

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surface preparation table

Coated surfaces

Minimum	Clean, dry and undamaged compatible coating
Recommended	Clean, dry and undamaged compatible coating

Application

Application methods	Spray: Use air spray or airless spray.					
	Brush: Recommended for stripe coating and small areas. Please be careful to achieve the specified dry film thickness.					
	Roller: May be used. Care must be taken to achieve the specified dry film thickness					
Mixing ratio	8:1 (by volume)					
Thinner	Litum Thinner Nº 10 (maximum 5%)					
Induction and pot life	Pot life 1,5 hours (23°C)					
Airless application	Nozzle tips range (inch/1000): 11-21					
	Pressure nozzle outlet (minimum): 150 bar/2100 psi					
Air application	Nozzle tip: HVLP: 1,3-2,2 mm					
	Pressure at nozzle (minimum): HVLP: 2.5 bar					
Drying	Surface temperature	-10°C	0°C	5°C	10°C	23°C
	Touch dry	18h	7h	3h	1,5h	30min
	Handle (hard) dry	48h	24h	12h	5h	2h
	Overcoat minimum	48h	24h	12h	5h	2h
	Service dry	56d	28d	14d	7d	3d
	Curing/drying time is increasing when coating applied at relative humidity (RH) below 85%, and at average of the DFT range for the product.					
	Touch dry: the state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.					
	Handle (hard) dry: minimum time before the coating can tolerate normal pressing without permanent marks or other physical damage.					
	Overcoat minimum: the recommended shortest time before the next coat application.					
	Service dry: minimum time before the coating can be constantly exposed to the intended environment.					
High temperature resistance	120°C (continuous)					
	140°C (peak - up to 1 hour)					
	Duration of superior temperature limit is maximum 1 hour. The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures					

Compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Litum for specific system recommendation.

Previous coat: epoxy, epoxy mastic, zinc epoxy, polyurethane

Packing size

	Volume (L)	Container (L)
Litacoat Frost U comp. A	17.8	20
Litacoat Frost U comp. B	2.2	3

The volume stated is for factory made colors.

Storage and shelf life at 23°C

Storage conditions are to keep the containers in a dry, cool, well-ventilated area and away from source of heat and ignition. Containers must be kept tightly closed. Handle with care.

Litacoat Frost U comp. A	48 months
Litacoat Frost U comp. B	48 months

The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Qualification, health and safety

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to for approval before commencing the work. Please observe the Litum's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Litum representative precautionary notices displayed on the container. Use under well-ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should be immediately removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Color variation

Color and gloss retention on topcoats/finish coats may vary depending on type of color, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint.

Disclaimer

The information in this document is given to the best of Litum's knowledge, based on laboratory testing and practical experience. Litum's products are considered as semi-finished goods and as such, products are often used under conditions beyond Litum's control. Litum cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Litum reserves the right to change the given data without further notice. Users should always consult Litum for specific guidance on the general suitability of this product for their needs and specific application practices. In case of any inconsistencies between two languages of this document, the Russian version will prevail.