

Litatank Standard

Description

This is a two-component polyamine cured phenolic/novolac epoxy coating. It is a specially designed tank lining with excellent chemical resistance. Can be used as primer, mid coat or finish coat in atmospheric and immersed environments. Suitable for properly prepared carbon steel, galvanised steel, stainless steel and concrete substrates.

Typical use

Protective: Specially designed as an internal lining for offshore, onshore and buried tanks and pipes such as chemical storage, wastewater, grey water, process water, concrete bund, fire service lines and drilling mud tanks. Can be used in pressure vessels. This coating has very good resistance to high temperature products.

Colors

Light grey, red, light red, grey

Product data

Solids by volume	63±2%
Gloss level (GU 60°) (ISO 2813)	Matt (0-35)
Flash point (ISO 3679 Method 1)	28°C
Density	1.6 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	100-200 µm
Wet film thickness	160-320 µm
Theoretical spreading range	6.3-3.2 m ² /l

Surface preparation

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

Surface preparation table

Carbon steel

Minimum	Sa 2½ (ISO 8501-1)
Recommended	Sa 2½ (ISO 8501-1)

Galvanized steel

Minimum	The surface shall be clean, dry and appear with a rough and dull profile.
Recommended	Sweep blast-cleaning using nonmetallic abrasive leaving a clean, rough and even pattern.

Stainless steel

Minimum	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.
Recommended	Sweep blast-cleaning using nonmetallic abrasive leaving a clean, rough and even pattern.

Coated surfaces

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

Concrete

Minimum	Dry abrasive blast cleaning to SSPCSP 13/NACE No. 6.
Recommended	Dry abrasive blast cleaning to SSPCSP 13/NACE No. 6.

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.

Mixing ratio

6,5:1 (by volume)

Thinner

Litum Thinner Nº 23

Induction and pot life

Induction time	20 minutes (23°C)
Pot life	4 hours (23°C)

Airless application

Nozzle tips range (inch/1000):	17-21
Pressure nozzle outlet (minimum):	200 bar/ 2800 psi

Drying

Surface temperature	10°C	15°C	23°C	30°C	40°C
Touch dry	15h	12h	4h	3h	2h
Handle (hard) dry	24h	20h	10h	8h	4h
Overcoat minimum	24h	20h	10h	8h	4h
Service dry	21d	14d	7d	4d	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.

For storage of crude oil and clean petroleum products the tanks can be returned to service 48 hours after application of the final coat, when applied at temperatures 23 °C and above.

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

Dry, atmospheric 200°C (continuous)

Immersed, sea water 90°C (continuous)

Immersed, crude oil 120°C (continuous)

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures. Heat resistance is influenced by the total coating system. If used as part of a system, ensure all coatings in the system have similar heat resistance.

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: phenolic/novolac, epoxy

Next coat: phenolic/novolac, epoxy

Packing size

	Volume (L)	Container (L)
Litatank Standard comp. A	16,3	20
Litatank Standard comp. B	2,5	5

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.

Litatank Standard comp. A	24 months
Litatank Standard comp. B	24 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 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 for approval before commencing the work. Please observe the 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

When applicable, products primarily meant for use as primers may have slight color variations from batch to batch. Such products and epoxy-based products used as a finish coat may chalk when exposed to sunlight and weathering. 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. Contact your local Litum office for further information.

Disclaimer

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