

Litaprime 500

Description

This is a two component polyamine cured epoxy coating. It is a fast drying, abrasion resistant, high solids, high build product. Can be used as an all year newbuilding and repair coating. Can be used as primer, mid coat, finish coat or as single coat system in atmospheric and immersed environments. Suitable for properly prepared carbon steel and galvanised steel substrates.

Typical use

Marine: Exterior and interior areas, including outside hulls, superstructures and decks. In immersed environments Jotaprime 500 Aluminium is suitable.

Colors

Grey, red, aluminium red toned, aluminium

Product data

Solids by volume	70±3%
Gloss level (GU 60°) (ISO 2813)	Semi-gloss (35-70)
Flash point (ISO 3679 Method 1)	28°C
Density	1.45±0.05 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	143-286 µm
Theoretical spreading range	7.0-3.5 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	St 2 (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.

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.

Mixing ratio

4:1 (by volume)

Thinner

Litum Thinner Nº 17

Induction and pot life

Pot life 1 hours (23°C)

Airless application

Nozzle tips range (inch/1000): 17-23
Pressure nozzle outlet (minimum): 150 bar/2100 psi

Drying

Surface temperature	-5°C	0°C	5°C	10°C	23°C	40°C
Touch dry	20h	14h	6h	4h	2h	1h
Handle (hard) dry	48h	30h	16h	10h	4h	2h
Overcoat minimum	48h	30h	16h	10h	4h	2h
Service dry	30d	21d	14d	10d	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)
Immersed, sea water 50°C (continues)
Immersed, sea water 60°C (peak)

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: inorganic zinc silicate shop primer, epoxy, epoxy mastic, zinc epoxy, zinc silicate, organic shop primer

Next coat: acrylic, epoxy, polyurethane, polysiloxan

Packing size

	Volume (L)	Container (L)
Litaprime 500 comp. A	16	20
Litaprime 500 comp. B	4	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.

Litaprime 500 comp. A	24 months
Litaprime 500 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

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.