

Litalac Seal

Description

This is a two component transparent polyamide cured high molecular weight epoxy sealer coating. It has excellent penetrating properties and is designed to be used as sealer coat or varnish for concrete surfaces. Can be used as primer or finish coat in a complete system in atmospheric environments.

Typical use

Suitable for concrete exposed to a wide range of environments.

Approvals and certificates

As part of the system it complies the GOST 51102-97 for use at nuclear industry facilities.

Colors

Transparent

Product data

Solids by volume	44±2%
Gloss level (GU 60°) (ISO 2813)	Gloss (70-85)
Flash point (ISO 3679 Method 1)	25°C
Density	0.97±0.02 kg/l

The provided data is typical for factory-produced products. 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	30-50 µm
Wet film thickness	70-115 µm
Theoretical spreading range	14.7-8.8 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

Coated surfaces

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

Concrete

Minimum	Low pressure water washing to a rough, clean, dry and laitance free surface.
Recommended	Minimum 4 weeks curing. Moisture content maximum 4 %. Prepare the surface by means of enclosed blast shot or diamond grinding and other appropriate means to abrade the surrounding concrete and to remove laitance.

Application

Application methods

- Spray:**
Use air spray or airless spray. There is dilution required of 15-20% by volume.
- Roller:**
Recommended.
- Brush:**
Recommended.

Mixing ratio

4:1 (by volume)

Thinner

Litum Thinner Nº 17

Induction and pot life

Induction	30 minutes (23°C)
Pot life	8 hours (23°C)

Airless application

Nozzle tips range (inch/1000):	15-23 (for concrete surfaces) 11-13 (for aged coating surfaces)
Pressure nozzle outlet (minimum):	150 bar

Drying

Surface temperature	10°C	23°C	40°C
Touch dry	2h	1h	30min
Handle (hard) dry	14h	6,5h	4h
Overcoat minimum	8h	4h	2h
Service dry	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

Dry, atmospheric 120°C (continuous)

Dry, atmospheric 140°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 topcoats can be used in combination with this product. Some examples are shown below. Contact Litum for specific system recommendation.

Subsequent coat: epoxy, polyurethane

Packing size

	Volume (L)	Container (L)
Litalac Seal comp. A	4/16	5/20
Litahard Uni comp. B	1/4	1/5

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.

Litalac Seal comp. A	24 months
Litahard Uni 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 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.