

Lanat® Resistent

One-component, moisture-cured polyurethane primer and topcoat

Product Description

Lanat® Resistent is a one-component, moisture-cured polyurethane intended for use either as a primer before applying any other Lanat product or as a topcoat on floors exposed to moderate to extreme conditions.
It provides excellent abrasion, impact resistance and chemical resistance. Exposure to sunlight will cause yellowing.

Uses

Excellent for use in chemical processing, warehousing, loading docks, food and beverage processing, and other indoor areas requiring a high performance, abrasion resistant finish.

Product highlights

- Excellent chemical resistance.
- One component, easy to use.
- Highly resistant to abrasion and impact.
- Keeps concrete dusting down.
- Extremely hard, yet flexible film.
- Easy to clean and maintain.
- Excellent adhesion to concrete, wood, board, plastic of various types and all Lanat products.
- Can be colored using Lanat Color paste

Product Data

Form Appearance

One component: yellowish, liquid

Packaging

1 liter
10 liter

Storage

12 months from date of production if stored properly

Storage Conditions / Shelf-Life

- Storage in original sealed Lanatplast container.
- Recommended storage temperature: room temperature (approx. 23 °C)
- Protect from moisture, heat and foreign material.

General information: The product is sensitive to moisture and temperature and should therefore be stored in its sealed original containers in a cool, dry and well-ventilated place. Brief storage (one to two weeks) at max. 50°C has no adverse effect on the product. Prolonged storage at high temperatures will cause an increase in viscosity.

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Technical Data

Chemical Base	Polyurethane		
		Method	
Density at 20°C	approx. 1.0 g/ml	DIN EN ISO 2811	
Flash point	approx. 26 °C	DIN EN ISO 2719	
Solid Content	~ 50% (by weight)		
Coverage per litre at recommended film thickness	8 square meter This figure is theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. The number of coats needed is dependent on a number of factors like the porosity of the substrate.		
Recommended film thickness	Wet 100 µm Two layers is normally recommended.	Dry 50 µm	
Dry Time @ 25 °C (77 °F) @ 50% RH	Tack Free 2 Hours Low humidity and cool temperatures will result in longer dry, recoat and service times.	To Recoat 8 Hours	Full Cure 7 Days

Substrate

Substrate Quality	The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² . The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt, apply a test area first.
Substrate Preparation	Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Prior to application, any damage and cracks in the substrate should be repaired. The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by e.g. grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

Application conditions / Limitations

Substrate Temperature	+5°C min. / +25°C max.
Air Temperature	Apply when air temperatures are between 10°C and 30°C.
Substrate Moisture Content	< 1% pbw moisture content. No rising moisture according to ASTM (Polyethylene-sheet).
Application Method / Tools	Apply a sufficient thickness of the coating using a roller suitable for use with solventborne systems. When applied by roller to very rough substrates, care must be taken to avoid the formation of puddles in which excessively high wet film thicknesses occur..
Potlife	approx 60 minutes at 20°C.

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Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
Legal Notes	This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

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