

Lanat® Spackel

Two part elastic polyurethane sealant

Product Description

This product can be used when the concrete is mechanical or chemical damaged, damaged by frost or cracked but also to even out level differences when the concrete is at different levels. The product is thixotropic, which enables the design of a wedge.

Where to Use

- Because of its outstanding mechanical properties this sealant is suitable for sealing and repairing concrete and synthetic resin coatings in indoor applications.
- Industrial and manufacturing facilities.
- Parking decks and access ramps.
- Sewage and waste water treatment plants and wherever a waterproof floor is required.

Product highlights

- High versatility, very broad application opportunities.
- Excellent crack-bridging properties.
- Fast drying
- 100% solids with zero VOC
- Excellent adhesion on different substrates.
- Cures at low temperatures
- The product attaches to many substrates.

Product Data

Form

Appearance / Colours

Resin - part A: white, liquid
Hardener - part B: brownish, liquid

Colour range:
RAL ###
Other colours on request.

Packaging

Part A:	0,78 Litre
Part B:	0,22 Litre
Part A+B:	1,0 Litre

Storage

Storage Conditions / Shelf-Life

18 months from date of production if stored properly
- Storage in original sealed LanatPlast containers.
- Recommended storage temperature: 10 - 25 °C.
- Protect from moisture, heat and foreign material.
The product is sensitive to moisture and should therefore be stored in its sealed original containers. Storage at higher temperatures may result in an increase in viscosity and at lower temperatures in the formation of crystalline deposits.

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Technical Data

Chemical Base	Polyurethane	
Density	Part A:	~ 1.3 g/cm ³
	Part B:	~ 1.23 g/cm ³
	All Density values at +25°C.	
Solid Content	100%	

Mechanical properties after 1 day at RT followed by 3 days aging at 50 °C

Tensile strength	(MPa) approx.	13
Elongation at break	(%) approx.	70
Tear propagation resistance	(N/mm) approx.	50
Shore D hardness		70

How to use

Substrate Quality	<p>The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².</p> <p>The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.</p> <p>If in doubt, apply a test area first.</p>
Substrate Preparation	<p>Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.</p> <p>Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.</p> <p>Prior to application, large damages and cracks in the substrate should be pretreated.</p> <p>The concrete or screed substrate has to be primed using Lanat Resistent.</p> <p>High spots must be removed by e.g. grinding.</p> <p>All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.</p>

Application

Conditions /Limitations

Substrate Temperature	+5°C min. / +25°C max.
Substrate Moisture Content	< 1% pbw moisture content. No rising moisture according to polyethylene sheet test (Procedure Explained in ASTM D 4263). Prior to installation, it is recommended to measure maximum moisture content of concrete substrate.
Relative Air Humidity	70% r.h. max.

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Application Instructions

Mixing ratio	Part A : part B = 100 : 27 (by weight)
Mixing	<p>Empty component B into the component A container. Make sure that the colour of the labels on component A and B containers are the same. This is to guarantee the correct mixing ratio.</p> <p>Mix the combined components for at least 3 minutes, using a low-speed drill (300 - 450 rpm) to minimize entrapping air. Use a mixer suited to the volume of the mixing container. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once, to ensure complete mixing. When completely mixed the material should be uniform in colour and consistency.</p> <p>Finally pour the mixture into another container (new), free from any unmixed material along the sides. This step prevents any risk of getting unmixed material on the coating surface</p> <p>Mix only that quantity which can be used within its pot life.</p>
Pot Life	30 min
Mixing Tools	Preferably using an electric stirrer and taking care to minimize foaming.
Application Method / Tools	Apply a sufficient thickness of the coating using scraper and trowel for coating.

Waiting Time / Overcoating	Substrate temperature	Minimum	Maximum
	+20°C	8 hours	3 days

Curing Details

Applied Product ready for use	Temperature	Foot traffic	Light traffic	Full cure
	+20°C	~ 8 hours	~ 12 hours	~ 5 days

Drying times will vary according to air and substrate temperature and humidity.

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.