

## Lanat® Gjutmassa

### Two part elastic polyurethane coating

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**Product Description** Lanat Gjutmassa is a product that is mixed with 75% quartz sand free from moisture. The result is a cost-effective coating with very high strength and good formability. It is easy to e.g. design a driveway at an opening. The material can absorb movements in the substrate and retains its strength even in thin layers.

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**Where to Use**

- Because of its outstanding mechanical properties this product is suitable for 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.

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**Product highlights**

- High versatility, very broad application opportunities.
- Excellent crack-bridging properties.
- Fast drying
- 100% solids with zero VOC
- Excellent adhesion on different substrates.
- Easy to apply for an economical application.
- Cures at low temperatures
- The product forms a smooth coating that attaches to many substrates.

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### Product Data

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#### Form

**Appearance / Colours** Resin - part A: coloured, liquid  
Hardener - part B: brownish, liquid  
  
Colour range:  
NA

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**Packaging**

Part A:	2,7 Litre
Part B:	1,0 Litre
Part A+B:	3,7 Litre

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#### 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

<b>Chemical Base</b>	Polyurethane	
<b>Density</b>	Part A:	~ 1.0 g/cm <sup>3</sup>
	Part B:	~ 1.23 g/cm <sup>3</sup>
	All Density values at +20°C.	
<b>Solid Content</b>	100%	

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

<b>Tensile strength</b>	(MPa) approx.	NA
<b>Elongation at break</b>	(%) approx.	NA
<b>Tear propagation resistance</b>	(N/mm) approx.	NA
<b>Shore D hardness</b>		NA

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## How to use

<b>Substrate Quality</b>	<p>The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.</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>
<b>Substrate Preparation</b>	<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 or Lanat Grund.</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>

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## Application

### Conditions /Limitations

<b>Substrate Temperature</b>	+5°C min. / +25°C max.
<b>Substrate Moisture Content</b>	< 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.
<b>Relative Air Humidity</b>	70% r.h. max.

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## Application Instructions

<b>Mixing ratio</b>	Part A : part B = 100 : 45 (by weight)
<b>Mixing</b>	<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>
<b>Pot Life</b>	30 min
<b>Mixing Tools</b>	Preferably using an electric stirrer and taking care to minimize foaming.
<b>Application Method / Tools</b>	Apply a sufficient thickness of the coating using scraper and trowel for coating.

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

## Curing Details

<b>Applied Product ready for use</b>	Temperature	Foot traffic	Light traffic	Full cure
	+20°C	~ 8 hours	~ 16 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.

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