

# PURSELF 201

Polyurethane Based, Two Component, Solvent-Free, Self-Leveling Coating and Waterproofing Material

## Description

**PURSELF 201** is polyurethane based, two component, low-viscosity, solvent-free, self-leveling coating and waterproofing material.

## Fields of Application

- On concrete and cement based mineral surfaces,
- On internal and external applications,
- On factory, storehouse,
- On airplane hangars, tunnels and parking garages
- On shopping malls, markets and restaurants,
- On roof, terrace, ponds and underground water storage.

## Features and Benefits

- Excellent adhesion performance.
- Solvent free, safely used in interior surfaces.
- Excellent penetration ability due to low viscosity.
- Covers static cracks.
- Creates jointless and a seamless surface.
- Waterproof.
- Provides smooth and decorative surface.
- Excellent chemical, mechanical and abrasion strength.
- Easy to apply.

## Technical Data

Content	Polyurethane	
Mixture Density	1,30 – 1,40 (g/cm <sup>3</sup> , 23°C)	(DIN EN ISO 2811-1)
Mixture Rate	A/B 80/20 (by weight)	
Shore A	75 – 80	(ASTM D 2240, DIN 53505)
Tensile Strength (N / mm <sup>2</sup> )	50 ~ 60	(DIN 53504 TS 1967)
Tensile Elongation (%)	10 – 12	(DIN 53504 TS 1967)
E-Module (N / mm <sup>2</sup> )	~ 150	(DIN 52371 TS 985)
Flexural Strength (N / mm <sup>2</sup> )	15 ~ 20	(DIN 52371 TS 985)

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Abrasion Resistance	50 ~ 55 Taber	(ASTM D 4060-95)
Pot Life	30-40 minutes/23°C,200 g	. (DIN 16945)
Curing Time		
<i>Dust free drying</i>	<i>1-2 hours (at 23°C)</i>	
<i>Touch dry</i>	<i>5-7 hours (at 23°C)</i>	
<i>Full curing</i>	<i>7 days (at 23°C)</i>	
Chemical Resistance		
<i>sulfuric acid (H2SO4) %10</i>	<i>3</i>	
<i>sulfuric acid (H2SO4) %20</i>	<i>3</i>	
<i>hydrochloric acid (HCL) %10</i>	<i>3</i>	
<i>hydrochloric acid (HCL) %20</i>	<i>3</i>	
<i>Acetic Acid (CH3COOH) %10</i>	<i>1</i>	
<i>Lactic acid (CH3CHOH-COOH)%20</i>	<i>2</i>	
<i>Xylene</i>	<i>1</i>	
<i>Ethanol</i>	<i>1</i>	
<i>Solvent Naphtha</i>	<i>1</i>	
<i>(3*highly strength, 2*durable, 1*weak)</i>		
GTIP No	3907.30.00.00.00	

## Application Procedure

### **Preparation of Substrate**

Application surface must be cleaned off from the contaminant such as dirt, dust, rust, oil etc. Application surface must be scraped to be ready for application. Before the application on an asphalt surface, the surface must be prepared mechanically using abrasive blast cleaning or scarifying equipment to expose at least 50% of the aggregate. Surface should be dry.

### **Application Method**

Surface must be primed with **EPOX PR 100**. If needed, mid coat can be applied **EPOX PR 100** with aggregate mixture.

Component A and B should be mixed by low speed mixture for 3-4 minutes till homogenous mixture is obtained. Mixture is poured, spread evenly by means of a serrated trowel. After spreading the material evenly, turn the serrated trowel and smooth the surface in order to achieve an aesthetically higher grade of finish. Roll immediately in two directions with a spiked roller to ensure even thickness. Make sure that a continuous, pore free coat covers the substrate.

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Mixed product should be applied in max. 30 minutes in about +20°C. Waiting time between coats should be minimum 10 hours in +20°C and maximum 48 hours. If waited more than 48 hours, the surface should be sanded.

Application must be protected from water, direct sun light, wind, frost and rain at least 1 day.

If necessary, after mixing part A and B, aggregate is added to the mixture as needed and stirred again until a homogeneous mixture is obtained. If a rough surface is desired, quartz is sprinkled on the condition that it does not exceed 15% close to gelation according to the desired roughness.

After hardening, Aliphatic Polyurethane top coat paint is applied by airless spray or roller.

### Consumption

1,40 kg/m<sup>2</sup>/mm

### Packaging

A component: 19,5 kg + B component: 5,5 kg = 20 kg set

### Shelf Life

9 months in original, unopened package.

### Storage

Store in dry area between +10°C and +30°C. Protect from heat, freezing and direct sunlight.

### Cleanup Information

Clean tools and equipment with thinner immediately after use. Dried material can only be removed mechanically.

### Cautions / Limitations

- Differences in color may occur under the influence of direct sunlight. This does not affect the physical and chemical resistance of the coatings.
- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.

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- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +10°C and above +30°C.
- Avoid heavy traffic for 24 hours.

### Health and Safety

**Warning!** Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations.

Keep container closed when not in use. Keep out of the reach of children.

**Limited Warranty:** This product is subject to a written limited warranty which can be obtained free of charge from BAUMERK Company. Please contact with technical service department for further information and support.