

OP-COAT 100 N

Technical Data Sheet

Product: Pigmented coating
Two-component epoxy resin, pigmented, bio-based, very low emissions, free from BPA & BPA resin, benzylalcohol, salicylic acid, C12-C14 alkyl glycidyl ether, and styrenated phenols.

Characteristics:

- 65% bio-based carbon
- High abrasion resistance
- Fast curing
- Excellent chemical resistance
- Excellent mechanical properties
- Non-allergic and non-toxic after curing

Use Cases:

OP-Coat 100 N is a floor coating for all indoor spaces, which is bio-based, sustainable, and low-emission. The product is optimal in processing and, in combination with the primer OP-Primer 001 N, results in a high-quality surface coating system that is mechanically, chemically, and visually effective. The two-component coating is already slip-resistant. This property can be enhanced with additives. OP-Coat 100 N is suitable for use in both industrial settings and public facilities, such as schools, hospitals, shopping arcades, and other locations with high requirements on indoor air quality.

OP-Coat 100 N can be applied to non-absorbent, clean, cementitious substrates without prior priming.

Consumption 1.5 – 2.5 kg/m²

Quantity: Additional filling is possible with e.g. quartz sand Ø 0.1 - 0.3 mm. To achieve optimum properties, OP-Coat 100 N can be filled with quartz sand Ø 0.1 - 0.3 mm to 50 - 60% in Part A.

Resistance:

- Water / wastewater
- Detergents / surfactants
- Salt solutions
- Maximum wet temperature 40°C
- Solvents (please inquire)
- Diluted acids and alkalis
- Lubricants and fuels
- Maximum short-term wet temperature 60°C

Technical Data:

Mixing Ratio A : B	100 : 25 by weight
Density (23°C)	approx. 1,5 g/cm ³
Volume Solids	approx. 100 %
Viscosity (23°C)	approx. 2500 mPa·s ± 300
Shore D Hardness (DIN EN ISO 868)	approx. 60 - 70
Pull-off Strength between OP-Primer 001 and OP-Coat 100 (DIN EN 1542:1999-07)	> 3.5 N/mm ²

Processing Data*:

Processing Time (10°C / 23°C / 30°C)	approx. 30 min. / approx. 20 min. / approx. 10 min.
Object Temperature	minimum 15°C bis maximum 30°C
Material Temperature	15°C - 25°C
Walkable Curing (10°C / 23°C / 30°C)	24 hours / 8 hours / 6 hours
Mechanically Loadable Curing (10°C / 23°C / 30°C)	72 hours / 48 hours / 24 hours
Chemically Loadable Curing (10°C / 23°C / 30°C)	14 days / 7 days / 5 days

*The information provided are laboratory-determined guideline values and not specifications.

OP-COAT 100 N

Technical Data Sheet

Packaging: 30 kg working package: 25 kg Component A; 5 kg Component B
10 kg working package: 8,3 kg Component A; 1,7 kg Component B
Other packaging sizes are available on request.

Colors:

- Anthracite gray approx. RAL 7016
- Stone gray approx. RAL 7030
- Pebble gray approx. RAL 7032
- Light gray approx. RAL 7035
- Other colors available on request

Shelf Life: 12 months: cool and dry in the original container at 15 - 25°C.
Temperatures < 10°C may lead to crystallization.
Please contact ORGANIC POLYMER.

Surface Preparation:

Before coating, the substrate must be prepared using an appropriate method, e.g., Blastrac shot blasting.

Minimum Requirements:

- Free from sludge, dust, (oil, grease)* and substances that may impair adhesion
- Absorbent
- Minimum tear strength 1.5 N/mm²

* In consultation with ORGANIC POLYMER.

Depending on the nature of the substrate, the surface should be prepared pore-free with a primer and/or scratch filler using OP-Primer 001 N and may be lightly sprinkled with quartz sand. Excess quartz sand and contaminants must be carefully removed.

Processing:

The components (tempered to at least 10°C) are mixed carefully together for about 3 minutes with a slow-running stirrer (300 - 400 rpm) according to the mixing ratio, until a homogeneous mixture is achieved. Then, it is transferred to a clean container and mixed again for about 1 minute. Fillers should only be mixed in homogenously after the two components have been mixed. The contents of the container should be spread on the surface immediately after mixing. Depending on the use case, OP-Coat 100 is prepared either unfilled or filled with dried, tempered quartz sand with a grain size of Ø 0.1 - 0.3 mm in the appropriate weight ratio and applied evenly with a notched trowel (rubber or metal) at the desired layer thickness. The fresh coating should be rolled over within about 5 minutes with a suitable spiked roller to achieve an optimal surface and ventilation. This is especially necessary when an additional filling with quartz sand is used. To improve the optical quality of colors prone to floating (e.g., reddish gray tones), the fresh coating should be reworked with a suitable nylon roller (e.g., 14 mm pile height).

System Example:

The following information applies to object and floor temperatures of 15 - 23°C. Higher and lower temperatures may require changes in filling and consumption per m² and can affect the appearance.

Primer: OP-Primer 001 N, transparent; Consumption: approx. 0.25 - 0.5 kg/m², lightly sprinkle with quartz sand 0.4 - 0.8 mm (approx. 0.5 kg/m²)

Scratch Filling: OP-Primer 001 N + quartz sand; Consumption: approx. 600 g/m² binder plus quartz sand, lightly sprinkle with quartz sand 0.4 - 0.8 mm (approx. 0.5 kg/m²).

Coating: OP-Coat 100 N, anthracite gray, stone gray, pebble gray, light gray, special colors; Consumption: approx. 1.5 - 2.5 kg/m².

System Layer Thickness: 2 - 3 mm.

Professional maintenance further increases the lifespan of coating system.

Note: Exposure to UV radiation leads to a change in color tone.

Disposal Instructions: In general, uncured products are considered particularly hazardous waste and must be disposed of properly. In consultation with the relevant authority or landfill, cured material can be disposed of as household/commercial waste. Local authorities are responsible for providing information on proper disposal. Completely empty containers should be sent to recycling systems.

Protective Measures: For professional users only.
For more information on safety during transport, storage, and handling, as well as personal protective equipment and disposal, please refer to the current safety data sheet or the respective information from the professional associations.

GISCODE: RE30

EU Regulation „Decopaint-RL“: The maximum allowable VOC content (Category All/j/Type Lb) in the EU Regulation 2004/42/EC is 500 g/l in ready-to-use condition (Limit 2010). This product complies with the EU Regulation 2010.

CE Marking: Look on the Declaration of Performance



LFS ORGANIC POLYMER GmbH & Co. KG
Kurt-Oldenburg-Straße 20D | D – 22045 Hamburg

25

H2N-100-001
EN 13813:2002
OP-Coat-100 N

Synthetic resin screed/synthetic resin coating for indoor use

Fire Behavior	E _{fl}
Release of Corrosive Substances	SR
Wear Resistance	≤ AR1
Adhesion Tensile Strength	≥ B1,5
Impact Resistance	≥ IR4

OP-Coat 100 N 01.08.25:

Our information and advice provided in words, writing, and through trials are given to the best of our knowledge – however, they are considered non-binding, even about any third-party rights. This information does not exempt the buyers from their own examination of our advice and products for their suitability for the intended processes and purposes. The application and processing of our products occur outside of our influence and are therefore solely the responsibility of the user. The sale of our products is subject to our General Terms and Conditions of Sale, Delivery, and Payment.

Further Information:

H2N TRADING GmbH
Bgm.-Bombeck-Str. 1
D-22851 Norderstedt

Tel.: +49 40 308 598 51
info@h2n-trading.de
www.organicpolymer.de