

OP-COAT 550

Technical Data Sheet

Product: Pigmented polyurethane coating
Two-component polyurethane, UV-resistant, pigmented, organic-based, very low emissions, free of phthalates and other plasticisers

Characteristics:

- 33% bio-based carbon
- UV-resistant
- tough
- very good chemical and mechanical resistance
- very good adhesion to OP Primer 001 N and mineral substrates*
- physiologically harmless after curing

Use Cases:

OP-Coat 550 is an organic-based, sustainable and low-emission PU floor coating for all interior spaces. The product is easy to apply and, when combined with OP-Primer 001 N primer, creates a high-quality and durable coating system. OP-Coat 550 can be used in public facilities such as schools, hospitals, shopping centres and other buildings with high indoor air quality requirements.

Consumption: 0,3 - 2,0 kg/m²

Resistance:

- Water / Waste water
- Detergent / Surfactants
- Maximum wet temperature 40°
- Cleaning agents (please enquire)
- diluted acids and alkalis

Technical Data:

Mixing ratio A : B	100 : 50 by weight
Density (23°C)	c. 1,5 g/cm ³
Bulk solid	c. 100 %
Viscosity (23°C)	c. 2500 mPa·s ± 500
Shore D hardness (DIN EN ISO 868)	c. 70 - 80

Processing Data*:

Maximum relative humidity at 15°C	75% (dew point difference +3°C)
Maximum relative humidity at 23°C	85% (dew point difference +3°C)
processing time (15°C / 23°C / 30°C)	c. 60 min. / c. 30 min. / c. 15 min.
Object temperature	min. 15°C bis max.30°C
material temperature	15°C - 25°C
Curing walkable (15°C / 23°C / 30°C)	24 hours / 8 hours/ 6 hours
Hardening mechanically resilient (15°C / 23°C / 30°C)	72 hours/ 48 hours / 24 hours
Chemically resistant hardening (15°C / 23°C / 30°C)	14 days / 7 days/ 5 days

*The figures are laboratory-determined reference values and not specifications.

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Packaging: 30 kg container: 20 kg component A; 10 kg component B
6 kg container: 4 kg component A; 2 kg component B

Other packaging sizes are available on request.

Color:

- Anthracite grey approx. RAL 7016
- Stone grey approx. RAL 7030
- Pebble grey approx. RAL 7032
- Light grey approx. RAL 7035
- Other colours 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 is prepared using a suitable method, e.g. Blastrac shot blasting.

Minimum requirements:

- Free of sludge, dust, (oil, grease)* and substances that interfere with adhesion
- Non-absorbent
- Minimum tear strength 1.5 N/mm²

*In consultation with ORGANIC POLYMER

Depending on the condition of the substrate, it must be prepared by priming and/or applying OP-Primer 001 scratch coat to make it non-porous and, if necessary, lightly sprinkled with quartz sand. Excess quartz sand and dirt must be carefully removed.

Processing:

The components, which should be at a temperature of at least 15°C, are carefully mixed together for approx. 3 minutes using a slow-running mixer (300 - 400 rpm) in accordance with the mixing ratio until a homogeneous mixture is obtained. Then transfer to a clean container and mix again for approx. 1 minute. Fillers should only be stirred in after mixing to achieve a homogeneous mixture. Spread the contents of the container onto the surface immediately after mixing. Depending on the application, OP-Coat 500 is produced unfilled or filled with dried, tempered quartz sand with a grain size of Ø 0.1 - 0.3 mm in the appropriate ratio by weight and applied evenly with a notched trowel (rubber or metal) in the desired layer thickness. The fresh coating should be rolled with a suitable spiked roller within approx. 5 minutes to achieve an optimal surface and deaeration. This is particularly necessary when additional quartz sand is added. To improve the optical quality of colours that tend to bleed (e.g. reddish grey tones), the fresh coating should be finished 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 require changes to the filling and consumption per m² and can affect the opacity.

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 binding agent plus quartz sand; lightly sprinkle with quartz sand 0.4 - 0.8 mm (approx. 0.5 kg/m²).

Coating: OP-Coat 550, anthracite grey, stone grey, pebble grey, light grey, special colours; consumption: approx. 0.3 - 2.0 kg/m². System layer thickness: 1 - 2 mm.

Professional care further increases the service life of coating systems.

Disposal Instructions: In general, uncured products are waste that requires special monitoring and must be disposed of properly. In consultation with the relevant authority or landfill site, hardened material can be disposed of as household/commercial waste. The local authorities are responsible for proper disposal. Completely empty packaging must be recycled.

Protective Measures: Further information on safety during transport, storage and handling, as well as personal protective equipment and disposal, can be found in the current safety data sheet or in the relevant information provided by the employers' liability insurance associations.

GISCODE: PU10

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

CE-Marking: Look on the Declaration of Performance



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H2N-550-001
EN 13813:2002
OP-Coat 550

Synthetic resin screed/synthetic resin coating for indoor use

Fire behaviour	E _n
Release of corrosive substances	SR
Wear resistance	≤ AR1
Tensile strength	≥ B1,5
Impact resistance	≥ IR4

OP-Coat 550 25.08.25:

Our information and advice in words, writing and through trials is provided to the best of our knowledge – however, it is non-binding, including with regard to any third-party property rights. This information does not release the buyer from their own obligation to check our advice and products for their suitability for the intended processes and purposes. The application and processing of our products are beyond our control and are therefore the sole responsibility of the user. The sale of our products is subject to our General Terms and Conditions of Sale, Delivery and Payment.

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