
Product: Pigmented decor coating
Two-component polyurethane, UV-resistant, pigmented, bio-based, very low emissions, free from phthalates and other plasticizers

Characteristics:

- 70% bio-based carbon
- UV-resistant
- Viscoelastic surface
- Impact sound absorbing
- Very good adhesion to OP-Primer 001
- Non-allergic and non-toxic after curing

Use Cases:

OP-Coat 500 is a floor coating for all indoor areas, which is bio-based, sustainable, and low-emission. The product is optimal in processing and, in combination with the primer OP-Primer 001, results in a high-quality surface decor coating system. OP-Coat 500 is suitable for use in public facilities, such as schools, hospitals, shopping arcades, and other locations with high requirements for indoor air quality.

Consumption

Quantity: 2.0 – 4.0 kg/m²

Resistance:

- Water / wastewater
- Detergents / surfactants
- Maximum wet temperature 40°C
- Cleaning agent (please inquire)
- Diluted acids and alkalis

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. 4000 mPa·s ± 500
Shore A Hardness (DIN EN ISO 868)	approx. 80

Processing Data*:

Maximum relative humidity at 15°C	75% (Dew point distance +3°C)
Maximum relative humidity at 23°C	85% (Dew point distance +3°C)
Processing Time (10°C / 23°C / 30°C)	approx. 90 min. / approx. 60 min. / approx. 30 min.
Object Temperature	minimum 15°C bis maximum 30°C
Material Temperature	15°C - 25°C
Walkable Curing (10°C / 23°C / 30°C)	48 hours / 24 hours / 18 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 500

Technical Data Sheet

Packaging: 30 kg working package: 24 kg Component A; 6 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 and may be lightly sprinkled with quartz sand. Excess quartz sand and contaminants must be carefully removed.

Processing:

The components (tempered to at least 15°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 500 is prepared either unfilled or filled with dried, tempered quartz sand with a grain size of \varnothing 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, 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 + 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 500, anthracite gray, stone gray, pebble gray, light gray, special colors; Consumption: approx. 2.0 - 4.0 kg/m².

System Layer Thickness: 2 - 3 mm.

Note: OP-Coat 500 must always be sealed with a suitable topcoat and a wiping care product. Otherwise, the elastic surface will become too dirty.

Professional maintenance further increases the lifespan of coating system.

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: PU10

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.

OP-Coat 500 10.02.25:

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.

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