ECO TOPCOAT MAT

Two-component abrasion-resistant sealant

1–2	Up to 300 g/m²	VOC-free	7 days
COATS, SUBSTRATE-DEPENDENT	CONSUMPTION, 2 COATS	& APEO-FREE	FULLY LOADABLE

PROPERTIES AND BENEFITS

- Environmentally friendly
- VOC- and APEO-free
- Closes pores of the substrate
- Reduces abrasion
- Water vapour permeable
- Prevents penetration of liquids and dirt
- Increases the strength of porous substrates
- Increases the chemical and acid resistance of the substrate

DESCRIPTION

Eco Topcoat Mat is an abrasion-resistant industrial flooring sealant, with high surface strength and slide protection.

RANGE OF USAGE

For indoor and outdoor use: sealing of absorbent and sandy substrates in production areas and warehouses; sealing and protection of previously created floor areas with Silicate Systems flooring products; protection against salt water and aggressive chemicals; suitable for use in food-processing companies.

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Technical information

COMPOSITION AND PROCESSING

Basis	Aqueous dispersion + hardener
Mixing ratio	5:2, Component A : B
Pot life	60 min
Processing temperature	min. +10 °C, max. +35 °C
Max. permitted humidity	85% rel. H.
Waiting time between coats	12 hours at 20°C/65% rel. H.

LOADABILITY

Walkable, film formation at 20°C	12 hours
Light load	1 day
Normal use	3 days
Fully loadable	7 days

CONSUMPTION (READY-TO-USE MIXTURE)

1st coat	approx. 150–200 g/m²
2nd coat (optional)	approx. 100–150 g/m²
Total, 2 coats	up to 300 g/m²

At low temperatures or increased humidity, drying time extends. The information above is given based on our experience.

PREPARATION OF SUBSTRATE

Prior to application, ensure the underground is dry, dust-free, clean and free from substances that could cause separation before coating. Chalking and strongly sandy components must be removed (suck off with an efficient industrial vacuum cleaner), and existing render and/or coatings removed. Use disposable shoe covers after cleaning to avoid dirt ingress.

NUMBER OF COATS

Eco Topcoat Mat can be applied in one or two coats depending on substrate and application; the specified minimum consumption for the first or sole application should always be achieved for adequate stain protection. For self-levelling compounds or fine flowing screeds with a smooth surface (Eco Rapid or EcoSilicate flooring products), use approx. 150–200 g/m² for the first application.

Concrete/screed — normal requirements, simple floors	1 coat
Concrete/screed — increased load or high absorbency	2 coats
Self-levelling/flowing screed — normal requirements	1 coat
Self-levelling/flowing screed — max. stain protection or high load	2 coats

MIXING AND APPLICATION

Transfer Component A (polymer) to a clean mixing container, then add Component B while stirring, mixing for 3 minutes. At the end of mixing the material appears thicker than at the start — leave it to set for 10 minutes, then mix again for a further minute at low speed. Apply striation-free with a short-fibre paint roller; use only new rollers, rinsed with clear water first to remove loose fibres. A second coat can optionally be applied after 12 hours if the surface is dry and walkable. At the low end of the specified temperature range or high humidity, waiting times between applications may extend to 24 hours; observe sufficient film formation before applying additional layers, and use shoe covers to avoid contaminating dried surfaces (footprints are difficult to remove). On highly absorbent substrates or heavily stressed areas, two layers are recommended. Within the first 7 days, remove long-term water load immediately; thereafter the surface resists permanent water load, beverages, oil and fats. Mechanical abrasion scratches can be repaired with a new sealer layer.

MAINTENANCE AND CARE

Remove sand or coarse particles during normal cleaning, as they act as grinding materials. Avoid long-lasting exposure to harmful liquids to prevent staining. Heavy mechanical stress (e.g. heavy machinery) can damage the coating — post-treat damaged areas with a new layer after basic cleaning with a commercially available, slightly alkaline floor cleaner. For larger areas or heavy staining, mechanical cleaning is recommended; for recoating, the surface should be free of cleaning-agent residue and fully dry.

TOOLS AND CLEANING

Brush, roller or spraying tools. All equipment should be washed clean and dried before and after application.

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Notes, safety and declaration of performance

PACKAGING AND STORAGE

Packaging	7 kg combined (5 kg A + 2 kg B)
Storage	9 months
Storage temperature	10–25 °C, not below 0 °C

Store in dry, controlled temperate areas. Reseal opened containers immediately and use within a short time.

NOTES

Because absorbency varies by substrate, a test application on a sample area is recommended. Impurities must be washed off immediately with water, and tools cleaned between applications. Once the pot life is exceeded, material consistency may change — dispose of any unused material.

SAFETY, ECOLOGY AND ELIMINATION

Component A: none. Component B may cause allergic reactions and respiratory irritation — ensure sufficient ventilation during application. Eco Topcoat Mat is harmless after hardening. Refer to the Material Safety Data Sheet (MSDS), available on request, for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.

DECLARATION OF PERFORMANCE

EPD verified

This product is covered by Environmental Product Declaration MD-26095-EN, verified by EPD Danmark in accordance with ISO 14025 and EN 15804+A2. Issued 10-09-2026, valid to 10-09-2031.

AVAILABLE ON REQUEST

Material Safety Data Sheet (MSDS); Cleaning and Care Instructions for floor products.

The content of this technical data sheet corresponds to the latest development and our applications experience. All information is based on ideal conditions and therefore does not apply for every application purpose. Due to different materials, substrates and different actual site conditions no warranty is given for the customer's application. In particular, we assume no liability based on this information or any verbal statements. The only exception is when we can be blamed for intent or gross negligence. In that case the customer has to prove that he has transmitted all required information completely and in a timely manner for a proper evaluation by NBS Distribution. Any further details regarding the application of our products have to be confirmed in writing by NBS Distribution. The customer must test the product's suitability for the intended application and purpose. We reserve the right to change the product specifications due to ongoing development. Apart from that our general terms and conditions are valid. This data sheet supersedes all earlier technical data on this product. The technical data sheet can be requested on nbsdistribution.eu.