

PRODUCT DATA SHEET

WINDECK BINDER



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PRODUCT DESCRIPTION

Hybrid resin, single-component, transparent, medium-viscosity, water-free and solvent-free.

FIELDS OF USE

WINDECK BINDER has been specifically formulated as a binder for colored aggregates of different sizes, to be used in the construction of permeable and draining driveways and pedestrian walkways with an attractive aesthetic appearance.

The mixture can be applied to concrete pavements, cement-based substrates, natural stone surfaces, tiled surfaces, and asphalt pavements.

Thanks to its special formulation, **WINDECK BINDER**, once cured, allows water drainage and enables the substrate to breathe. For this reason, it can be applied on substrates with slight residual moisture, but not in the presence of standing water.

WINDECK BINDER can also be used as a binder with rubber granules for the production of impact-absorbing safety surfacing.

WINDECK BINDER is resistant to freeze-thaw cycles and thermal shock and offers excellent durability.

SURFACE PREPARATION

Carefully clean the substrate to remove dust, loose or friable material, and any foreign or release agents. The substrate receiving the application must have a sufficient slope to ensure proper drainage of rainwater.

WARNINGS

Do not add any additives.

Do not use the product if the container is damaged.

Do not add water and/or solvents.

Apply at temperatures between +5°C and +35°C.

Protect the applied surface from water, rain, and snow during the first 24 hours after application.

Do not apply in conditions of high ambient humidity (>80% RH).

PRODUCT PREPARATION

The product is ready to use.

Place the filler material (aggregates or rubber granules) into the concrete mixer, then slowly add **WINDECK BINDER**. Mix thoroughly until the filler material is uniformly and completely coated with the binder.

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APPLICATION WITH AGGREGATES

Pour the mixture onto the substrate and spread it using a metal trowel and/or screed, then compact it adequately. Apply the product in a single coat to achieve a uniform thickness.

The surface can be opened to pedestrian and vehicular traffic **48 hours after application at 20°C**.

For temperatures below **20°C**, refer to the table below:

Temperature	Time Before Traffic
20°C	2 days
15°C	4 days
10°C	5 days

Expansion joints in the substrate must always be carried through to the finished surface by installing suitable **aluminum or stainless-steel profiles** with a height equal to the application thickness.

If the substrate does not have expansion joints, they must be created beforehand where necessary.

APPLICATION WITH RUBBER GRANULES

Pour the mixture onto the substrate, spread it using a screed, and compact it adequately. Apply the product in a single coat to achieve a uniform thickness.

CONSUMPTION

Approx. 2 kg (for binding/stabilizing applications) and 3 kg (for pedestrian traffic applications) per 100 kg of aggregates. Consumption may vary depending on the absorbency and particle size distribution of the aggregate.

Approx. 20 ± 2 kg per 100 kg of rubber granules, depending on their particle size distribution.

PACKAGING

5 kg and 20 kg pails.

STORAGE

The product has a shelf life of 12 months when stored in its original, unopened packaging in a dry and protected place.

Protect from frost.

Store at temperatures between +5°C and +35°C.

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SAFETY INSTRUCTIONS

PRECAUTIONS

For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

DISPOSAL AND ENVIRONMENTAL PRECAUTIONS

Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS).

TECHNICAL FEATURES

FEATURES	RESULTS
Appearance	Transparent liquid
Colour	Colorless liquid
Density at +20°C	1,08 ± 0,05
Non-volatile content	92 ± 3
Brookfield viscosity at 20°C	1700 ± 200

PERFORMANCE OF THE PRODUCT IN SERVICE

Service temperature	-30°C + 80°C
Weather resistance	Excellent
UV resistance	Excellent (non-yellowing)

MECHANICAL PROPERTIES OF THE NEAT RESIN

Tensile strength (ASTM D2370)	6,5 N/mm ²
Elongation at break (ASTM D2370)	>150 %

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