

Full aliphatic Polyurethane binder specially formulated for vertical surface, stone carpet application



Description

WallBINDER® 1K Full aliphatic Polyurethane binder specially formulated for vertical surface stone carpet application. With high solid viscosity, WallBINDER® 1K which cures with the humidity in the atmosphere, the material is based on technology with a modified rheology so as to be applied when thixotropy is required. It does not yellow/color does not change when exposed to sunlight. It is based on pure elastomeric, hydrophobic, which results in excellent resistance to mechanical, chemical, thermal, UV, continuous water contact and extreme weather conditions.

WallBINDER® 1K This adhesive can save valuable time by instantly locking stone carpet in place without sag or slip.

Applying vertical granules on stairs and walls.

Do not leave the packaging lid open during the application phase and open product can be saved for the next application using the packages lid open and close method.

Important Features

- Ready for Use
- Special formulated for summer/winter season
- Due to continuous water contact and rainwater, no lime or chlorine water stains occur
- Inhibits fungal and bacterial growth
- Highly Hydrophobic
- Highly sunlight resistance
- Full Aliphatic

Consumption

Application method for Vertical surfaces;

1. Mix 7% Wall Binder with the weight of the dry granules.
2. Cover the surface with WallBINDER 1 m² (130 gr) with a trowel on the wall.
3. Then, apply the granules that you mixed with WallBINDER® 1K to the vertical wet surface with a trowel and smooth it.

Packaging Types

4kg

20kg

Pallet Description

4kg	125pcs X 4kg	Total 500kg
20kg	30pcs X 20kg	Total 600kg

Features / Benefits

- High viscosity
- Great for outdoor kitchens and stair vertical veneers
- Strong vertical adhesive
- Excellent weather and UV resistance
- Excellent thermal resistance, the product never turns soft
- Max service temperature 80 °C, max shock temperature 200 °C
- Resistance to cold: The film remains elastic even down to -40 °C Excellent adhesion
- Excellent mechanical properties
- Good chemical resistance
- Water vapor transmission
- High adhesion on different surfaces
- Easy to apply on vertical surfaces
- Resistant to UV rays, rain, heat and frost
- Outstanding resistance to chemicals
- Outstanding hydrolysis and oxidation resistance
- Absolutely non foaming
- Comfortable application

Application Areas

- For Wall Surface
- Indoors & Outdoors Walls
- Stairs, Bathroom, Pool Walls
- All (Wet) Vertical Surfaces
- Concrete, Tile , Marble
- Plasterboard, Hardwood Plywood
- OSB, Flake boards
- Chipboard Board Lumber Wood
- Ytong - Block, Brick

Technical Data

- **Potlife :** ± 30 minutes (20 °C)
- **Touch Drying Time :** ± 7 hours (25 °C)
- **Drying Time :** 24 hours (25 °C)
- **Service Temperature :** (-40 °C) - (+80 °C)
- **QUV Accelerated Weathering Test**
(6hr UV, at 70 °C (UVB-Lamps) & 6hr COND at 60 °C) - Passed 4000 hours.

Application Procedure

The application surface must be dry.

Stage 1.

- WallBINDER® 1K Add high viscosity full aliphatic polyurethane binder on marble or colored quartz granules and mix until a homogeneous mixture is obtained (2 minutes).

Stage 2.

- Apply the wall binder as a primer, the surface consumption of our Wallbinder product on the wall as a primer is / 130 grams for 1 m² surface.

Stage 3.

- Continue by applying our WallBINDER chemical to the wall in part by part, like a primer, and applying the granule at the same time, that is, do not apply the primer to the entire wall at once.

Stage 4.

- Then, apply the granules you mixed with WallBINDER to the wall with a trowel. This application is a wet ,wet application method.

Stage 5.

- Apply from the ground up and press the granules evenly. Compress the coated surface by applying uniform pressure to the trowel.

During the vertical stone carpet application;

- For a more comfortable application, spray the granules and your trowel with a mixture of 20% glass cleaning water and 80% tap water.
- Clean your trowel frequently with Cellulose thinner during the application phase.

- Application temperature range: (+5 °C) to +50°C)
- Do not apply under rain or snow.
- Relative humidity must be no more than 85%.
- Try to eliminate the cured material on the walls of the mixing vessels.
- WallBINDER® -1K in a cool environment,avoiding exposure to direct sunlight make sure it stays under the shade provided

Technical Specifications

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	at 20 °C	4,000-5,000
Specific weight	gr/cm ³	at 25 °C	0.95-1.05
Solids	%	internal	80-85
Flash Point	°C	closed cup	30
Tack free time, at 77 of (25 °C) & 55% RH	hours	-	8
Recoat time	hours	-	8-24
Service temperature	°C	-	-40 to 80
Max. temperature short time (shock)	°C	-	200
Hardness	Shore D	-	60
Tensile strength at break at 23 °C	Kg/cm ² (N/mm ²)	-	350 (35)
Percent elongation at 23 °C	%	-	> 350
Water vapor transmission	gr/m ² .hr	Water Method	0.8
QUV Accelerated Weathering Test (6hr UV, at 70 °C (UVB-Lamps) & 6hr COND at 60 °C)	-	-	passed (4,000 hours)
Thermal resistance (120 days at 80 °C)	-	-	passed

Chemical (Hydrolysis) Resistance

Potassium Hydroxide, 8%	14 days at 50 °C	unaffected
Sodium Hypochlorite, 5%	14 days	unaffected
Water absorption	-	< 1.4%