

AQUASMART®-VERTICAL

Unique Water based Aliphatic, Polyurethane binder for vertical marble stone carpet application

DESCRIPTION

AQUASMART® –VERTICAL is a water based, aliphatic polyurethane designed for use as a binder for marble stone carpets when application must be done on vertical substrates. The product is recommended to be used for indoor applications.

The product has excellent UV, chemical, water and abrasion resistance.

Recommended consumption is 10 % by weight of marble stones and application is first carried out with rubber spatula with pressure and finished off with short hair roller.

FEATURES & BENEFITS

- Water based
- Excellent thixotropy
- Easy to apply .
- Excellent UV resistance.

APPLICATION PREREQUISITES

Standard concrete substrate conditions (no primer needed):

- Hardness: $R_{28} = 15$ Mpa.
- Temperature: 5-35 °C.
- Relative humidity: < 85%.

Suitable primers: **AQUADUR™, AQUASMART-DUR, UNIVERSAL PRIMER, MICROSEALER-PU** depending on the substrate. Please contact our

technical department for primer selection advice.

APPLICATION PROCEDURE

Clean the substrate using a high pressure washer, if possible. Remove oil, grease and wax contaminants.

Mixing:

Use a low speed (300 rpm) mixer . Add stones and continue mixing for a few minutes.

Application:

Recommended consumption is 10% by weight of stones and application is first carried out with rubber spatula with pressure and finished off with short hair roller.

CLEANING

Clean tools and equipment with water.

SHELF LIFE

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25 °C.

SAFETY INFORMATION

The MSDS (Material Safety Data Sheet) is available on request.

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TECHNICAL SPECIFICATIONS

In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Solids content (in water)	%	-	±40
Viscosity (Brookfield)	cP	ASTM D4287, @ 25 °C	1,500-4,000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	±1
Required application temperature	°C	-	> 5

In cured form (after application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Hardness	Shore D	ASTM D2240 / DIN 53505 / ISO R868	60
H ₂ O absorption	%	-	< 4
QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @ 50 °C)	-	ASTM G53	passed (2,000 hours)
Resistance to sodium Hypochlorite 5%	-	10 days @ 25° C	passed
Resistance to HCl 1N, PH=0.5	-	10 days @ 25° C	passed
Resistance to KOH 5%	-	10 days @ 25° C	passed

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