

HYPERDESMO®-ADY- PU 1K SL

One component, 100% solids, fully aliphatic, polyurethane Marble Stone Binder

DESCRIPTION

HYPERDESMO®-ADY-PU-1K SL is a one-component, 100% solids, fully aliphatic polyurethane resin, for use as a binder for natural and synthetic stone.

Application as a marble stone binder requires 4-6% by weight of product to be mixed with stones. Higher binder ration will cause bubbling.

FEATURES & BENEFITS

- Solvent-less, 100% solids.
- Fully aliphatic, no yellowing resulting from UV exposure.
- Excellent resistance to heat, it will not yellow, peel or soften up to 80 °C.
- Very high resistance to mechanical stresses (high tensile strength and abrasion resistance).
- Outstanding resistance to chemicals and hydrolysis.

APPLICATION PROCEDURE

Clean the surface using jet water, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes, etc. must also be removed. The application surface must be **dry**.

Application as a marble stone binder requires 6% by weight of product to be mixed with stones. In marble stone applications, waterproofing of substrate with Hyperdesmo-System must carried out below the marble stone layer.

CLEANING

Clean tools and equipment first with paper and then using SOLVENT-01. Rollers will not be re-usable.

SHELF LIFE

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25 °C. Once opened, use as soon as possible.

SAFETY INFORMATION

HYPERDESMO®-ADY-PU 1K SL is free of solvents. Nevertheless, you are advised to observe the standard safety rules: Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. The M.S.D.S. (Material Safety Data Sheet) is available on request.

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TECHNICAL SPECIFICATIONS

In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield)	cP	ASTM D4287, @ 25 °C	2,000-4,000
% Solids	%	-	100

The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Max. temperature short time (shock)	°C	-	200
Hardness	Shore D	ASTM D2240 / DIN 53505 / ISO R868	> 60
Percent elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 100
QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @ 50 °C)	-	ASTM G53	passed (3,000 hours)
Hydrolysis (Potassium Hydroxide 8%, 10 days @ 60 °C)	-	-	no significant elastomeric property change
Hydrolysis (Sodium Hypochlorite 16%, 10 days)	-	-	no significant elastomeric property change
Water absorption	-	-	0.5%

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