

PU BINDER STONE AF
Polyurethane Based Aliphatic Stone
Binder Resin

Product Technical Document

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Definition

PU BINDER STONE AF, with its aliphatic isocyanate content, is a polyurethane binder with high UV resistance, one component, solvent free, transparent colour used in stone bonding.

Usage Fields

PU BINDER STONE AF are binder systems used for on-site construction of stone carpets made with quartz minerals. Walking and cycling tracks with water permeability are examples of application areas.

Technical Specifications

Properties	Value	Unit	Method
Colour	Transparent, colourless		DIN EN 1557
Density	1,10 ± 0.02	mg KOH/g	DIN EN ISO 2811
Viscosity	3000 ± 500	mPa·s (25 °C)	DIN EN ISO 3219/A.3
NCO content	15.0	%	DIN 53185
Application Temperature	Min 8 Max 40	°C	
Permissible ambient relative humidity	Min 40 Max 90	%	
Working time (10 °C) (20 °C) (30 °C)	50 30 20	min.	
Waiting Time Between Floor (10°C) (20°C) (30°C)	24 18 10	min.	

*These values provide general information and are not part of the product specification.

Application Method

The ideal temperature for **PU BINDER STONE AF** application is 15-25 °C. Depending on the grain size, 3 -10 units of **PU BINDER STONE AF** by weight is added in proportion to 100 units of round quartz mineral in a mixer operating at approximately 300 rpm and the mixture is stirred for 3-5 minutes. is mixed. The material must be applied by hand and the ground must be crushed with a roller to obtain good surface strength.

Cleaning Material

Reusable instruments should be carefully cleaned with suitable solvents (e.g., butyl acetate) before curing takes place. Never use water or alcoholic solvents as a cleaner on uncured materials!

Storage

Store in original closed containers in dry conditions at a temperature range of 5-25 °C. Do not expose the packages to direct sunlight. Under these conditions, the shelf life of the material is 12 months.

Packaging

Bucket (20 kg)
Barrel (200 kg)