

TECHNICAL CHARACTERISTICS

TECHNICAL SPECIFICATION OF 2MM STONE VENEER

Information of Product

Specifications :

100 % natural stone surface, Harder and stronger than slate tiles by reinforcing with polyester resin, Thickness 2-3 mm, weight ca. 2.20 / m².

Application area of use :

Our Stone Veneer can be applied in almost all areas (Wall Coverings, Fireplace, Surrounds, Bathrooms, Wet-areas, Exteriors, Claddings, Furniture, Doors, Floor Coverings, Ceilings, Kitchens).

For these areas we recommend adhesives from companies like SOUDAL, MAPEI, C.T.1.

Cutting tools to work with :

Veneer can be worked with any commercially available tools available in all DIY stores. It can be cut by any tile cutting blades.

- Cutting with hard-metal tipped circular saw, skill saw (diamond blade, stone saw).
- Drilling and routing : Use tools for wood or stone.
- Flexibility can be increased by applying heat (using heat-gun around 400°C).

Lamination on wood, metals, plasterboard, fiber cement, XPS sheet :

When laminating (bonding) Veneer onto wood, fiber cement, plasterboard and metal, as well as most furniture applications, we recommend a 1 component PU (polyurethane) adhesive.

Adhesive :

- PU-Adhesive, MS-Polymer, Epoxy, Silicone.

Sealing and Protection :

We suggest any good stone impregnation and sealer application.

- Low traffic wall & floor: any good stone sealer.
- Wet areas / medium traffic wall & floor : Any good two component PU sealer.
- High traffic (floor commercial area) : 2 Component PU Sealer.

Technical Properties (raw material) General

Front	Real Stone
Fire Behavior	Individual Assessment
Thermal Expansion (194 °F)	0,5 – 0,8 mm/m (≈ 0,08 %)
Temperature Limits	-58 / +203 °F
Formaldehyde	Stone-Veneer is formaldehyde-free
Back	Glass fibre fabric in polyester resin matrix

Specific Surface

	Colorful Slate	Quartzite Slate
Thickness (mm)	1,0-1,5	1,0-2,0
Average Abrasion (mm) IS: 9162-1979	0,7	0,9
Maximum Abrasion (mm) IS: 9162-1979	0,8	1,0
Water Absorption (%) ASTM C-121:	2,5	1,9
Weight Per Square Meter (lbs)	2,2 – 3,3	2,2 – 4,4

Main Compositions

Top Layer	in %	Back Layer	in %
Oxygen (O)	44,6	Oxyger (O)	73
Carbon (C)	31	Carbon (O)	26
Silicone (Si)	13		
Aluminium (Al)	5,6		
Iron (Fe)	3,4		
Patassium (K)	2,4		

Test according to ASTM

C-121:

Water absorption in unsealed surface +2,50%.

UV resistance test :

Resistance against UV radiation (UV-B) to DIN EN ISO 11507.

Test cycle : 4h Radiation 50°C

4h Bedew 40°C

Duration of Test : 1000 h rating after 250 h, 500 h, 750 h.

Rating : Change in color to DIN EN ISO 11664-4, Sp62 Fa. X-Rite, measurement geometry: d/8°, kind of light : D65/10° observation angle, measurement of brightness to DIN 67530.

Abrasion test according to DIN EN ISO 10545-7 :

Reached Class PEI 2 without surface treatment.

- PEI I** Tiles for areas with light traffic and without abrasive dirt, e.g. bathrooms, bedrooms.
- PEI II** PEI II Tiles for areas with average traffic and medium to low abrasion, e.g. studying rooms, living rooms.
- PEI III** Tiles for areas with height medium to high traffic and average abrasion, e.g. foyer, kitchen in private residences.
- PEI IV** Tiles for areas with intense traffic, e.g. restaurants, offices, shops, public offices (excluding floors under cash desks and shop counters and narrow unavoidable passageways).
- PEI V** Tiles for areas with especially intense traffic.