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TECHNICAL SPECIFICATION OF NATURAL FLEXIBLE STONE VENEER

TO WHOME SOEVER IT MAY CONCERN

Attn:

Flexible Stone Veneers are thin, lightweight, flexible stone material; they are so innovative that they can be applied to any surface or shape. You can create your own expression of style. Transform ordinary spaces with the look and touch of stone, without the difficulty and expense of traditional stonework. Our Thin Flexible Stone Veneers are a breakthrough in easy-to-work with, authentic surfacing technology.

Standard Sheet Size :: 1220 mm x 610 mm / 4 ft. x 2 ft. / 48 inches x 24 inches, larger & smaller sizes are available on request.

Standard Weight Each Sheet :: Approximate 1.50 Kilograms with thickness of 1 mm to 1.50 mm (approximately 1.2 to 1.6 kilograms per square meter (approx. 0.25 gms per sq. foot).

Standard Thickness :: 1 mm to 1.50 mm

Storage:: Thin Flexible Stone Veneer sheets should be stored face-up in a cool, dry area and in a completely supported flat position. Do not store on edge or coiled.

Special:: Do not expose to direct flame.

Gluing:: The backside of the Thin Flexible Stone Veneers are treated with polyester backing. It is now possible to glue these sheets with common dispersion glues, hot melts and PUR (Polyurethane Reactive) glues onto a variety of carrier materials such as wood, fiber, cement boards and gypsum panels. For water resistant applications we recommend to apply a one or two component PUR adhesive (without the special fleece) onto the polyester backside.



Adhesives ::

01. Titebond "GREEN Choice" heavy duty construction adhesive.
02. Titebond "FAST GRAB" SOLVENT FREE FRP adhesive.
03. Premixed grout and tile adhesive.
04. Acrylic copolymer-based tile adhesive.
05. Polyurethane wood glues and PU construction grade adhesives.
06. Wood, parquet, and outdoor carpet adhesives.
07. Highly modified thin set. Use only after testing. Not recommended where high adhesion is required.
08. Thick latex or acrylic latex type tile adhesive. Use only where air drying can take place. Not recommended for exterior applications.
09. Epoxy.
10. Silicone (with primer only)
11. Construction grade multi-purpose adhesive, Liquid Nails type.
12. Polyester resin with filler.

Pressing: Our Thin Flexible Stone Veneer has a natural, rough stone surface with a variation of up to 2 mm. To compensate for tolerance during the pressing in the press, we recommend a silicone membrane to compensate for the height variations of Thin Flexible Stone Veneer Stone. During pressing, it is important to ensure the compression pressure is carefully selected. The pressing time depends upon the chosen glue or adhesive, substrate and temperature.

Cutting Tools: Flexible Stone Veneer has thin stone layers and can be cut with standard saws, equipped with a special laminate blade. Due to the thin stone layer and the fiber cover on the backside, the down time of the saw is reduced. If Flexible Stone Veneer has been applied to both sides of a panel, it is recommended that the reverse side be scored to avoid splintering. Routing the panels is also a quick solution. For bigger production runs it is recommended to use diamond tools. Commonly used machine cutting speeds in the woodworking industry cannot be exceeded. Dull tools, excessive speed or feed rates will lead to heat from friction, which cause melting of the polyester backing. Flexible Stone Veneer can also be cut with standard long nose metal scissors, water-cooled saw with a diamond blade, circular saws with a carbide blade, masonry disc or metal shears. The cutting of curves works best with long nose shears or on a CNC (Computer Numerical Control) cutting machine.

Surface treatment of Flexible Stone Veneer: You know Flexible Stone Veneer is a real stone and its surface is porous, and it has the natural look of slate & quartzite and includes the colors of various minerals. We recommend a sealer to protect this natural look of Flexible Stone Veneer. After installation, we should apply a protective coating or sealer. Flexible Stone Veneers' surface protected by a process of stone surface protection – for example "super mat" or "silk mat" protection for high stress surfaces. These coatings or sealings are applied lightly with a brush, rag or sponge. Flame proofing is also possible by the application of a special chemical on Flexible Stone Veneer Sheets.

Technical & Chemical Analysis: Thin Flexible Stone Veneer Sheets made by Quartzite Stone

Flexible Quartzite Stone Veneer


S.NO	TEST	RESULTS	PROTOCOL
1	Water Absorption, % by wt	3.52	ASTM C-21
2	Thermal Expansion (mm) (Change in thickness)	0.06	IS-2046 Guidelines
3	Density, kg/m ²	1.84	IS: 12866-1989 Guidelines
4	Temperature Limits (°C)	190. 0	IS-2046 Guidelines
5	Fire Behavior (mm/mm) (Burn Rate)	142. 4	IS:15061 Guideline
6	Abrasion Resistance (mm)		IS: 9162-1979
	Avg. Wear	0.9	
	Individual Wear (max.)	1	
7	Weight Per Square Meter (lbs.)	4.1	IS: 12866-1966 Guidelines
8	Back side		Glass fiber fabric in Polyester resin matrix

Toxic Element (EN-71 Part-3)
(Migration of Certain Element)

S.NO	ELEMENTS	REQUIREMENT (mg / kg) MAX	RESULTS (MG/KG)
1	Antimony (as Sb)	60	< 5.0
2	Arsenic (as As)	25	< 5.0
3	Barium (as Ba)	1000	10.0
4	Cadmium (as Cd)	75	<5.0
5	Chromium (as Cr)	60	<5.0
6	Lead (as Pb)	90	12.0
7	Mercury (as Hg)	60	<5.0
8	Selenium (as Se)	500	<5.0

Protocol. As per method en-71 Pt-3-1995 for safety of toys (Migration of Certain elements method)

NOTE:- The sample conforms to requirement of EN-Pt-3+A, :2000



Applications: Thin Flexible Stone Veneer is ideal for

1. Furniture production.
2. Curved surfaces and columns
3. Metal
4. Lacquered surfaces
5. Concrete
6. Wood
7. Plywood
8. Particle board
9. Ceramic tiles.
10. Drywall
11. MDF (Medium Density Fiberboard).
12. Doors
13. Furniture
14. Exhibition walls
15. Displays and floors.
16. Automotive industry
17. Rail, yachts, retail shops
18. Offices and elevators etc.

BEST REGARDS

YAWAR -