

Specification of Acrylic UV Solid Surface sheet, Joint Adhesive, Adhesive Gun and Applicable Epoxy paint for composite development

A. Acrylic UV Solid Surface sheet:

Dimension: 2440 (L) x 760(W) x 12(Thickness) in mm-
Qty.- 36 Nos. (Color: White – 12nos., Black – 12nos.,
Steel/Concrete Gray-06nos.,
White Marble Stone / Snowflakes – 06nos.)
2440 (L) x 760(W) x 6(Thickness) in mm-
Qty.- 36 Nos. (Color: White – 12nos., Black – 12nos.
Red – 06nos., Yellow – 06nos.)

B. Joint Adhesive: 05 cartridges for each color shade of the sheet

C. Epoxy Paint (including other desired additives) for Composite Development on Colored Sheet:
Qty. -05 Liters each of Black and White color (suitable for the Acrylic UV Solid Surface Sheet).

D. Adhesive Gun: Qty.- 05 Nos. (50 ml capacity)

Technical Parameters of Item A

S.No.	Properties	Test Procedure	Requisites
1.	Tensile Strength	ASTM D638	6500 - 7000 psi (minimum)
2.	Tensile Elongation	ASTM D638	<0.30%
3.	Flexural Strength	ASTM D790	+/- 10000 psi (minimum)
4.	Flexural Modulus	ASTM D790	1.8 x 10 ⁶ psi (minimum)
5.	Density	ASTM D638-2014	1.6-1.8 gm/cc
6.	Hardness	ASTM D785	≥ 85 -Rockwell "M" scale (minimum),
7.	Thermal Expansion	ASTM E228	≤ 3.4 x 10 ⁻⁵ in./in./°C
8.	Fungi and Bacteria	ASTM G21 & G22	No Growth
9.	Microbial Resistance	UL 2824	Highly resistant to growth
10.	Ball Impact	NEMA LD 3, Method 3.8	No fracture - 1/2 lb. Ball 6 mm slab - 36" drop
11.	Weatherability	ASTM G155	No Change
12.	Flammability	ASTM E84, NFPA 255 & UL 723	CLASS A / Grade I
13.	Class	NFPA 101®, Life Safety	CLASS A
14.	Water Absorptions Weight	MAX%	< 0.05
15.	Toxicity	-	Non-toxic

16.	Testing and Compliance Certifications	<ol style="list-style-type: none"> 1. All the requisites must be supported by certified test results. 2. Fire proof / retardant certificate (Confirming to Grade A of DIN4102-1), Acid alkaline certificate (Confirming to Class A2 of EN 13501-1) Anti-bacterial certificate (<100 CFU/plate). 3. ISO 9001:2015, ISO 14001:2015. 4. Make in India 5. More than 7 years manufacturer's warranty on material.
17.	<p><u>Essential features to be ensured:</u></p> <ol style="list-style-type: none"> 1. Colours should be homogenous throughout the entire thickness of material. 2. Should be solid, non-porous, and homogeneous throughout the span. 3. Should be worked like hardwood using similar tools. 4. Should be thermoformed in wooden or metal moulds at controlled temperatures. 5. Should be glued or joined together inconspicuously for a seamless joint. 	