SAFEBOND MASTIC

TECHNICAL DATA SHEET

SAFEBOARD
3510 Arundell Cir #201
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Tel. 805-626-7333
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KNIFEGRADE EPOXY MASTIC

Epoxy bi-component mastic, semisolid and colored-for bonding and mono and multi-material lamination.

Bi-component epoxy mastic in soft thixotropic paste. The semi-solid mastic is softer and easier to spatulate, it stands out for its speed or adhesion, maximum strength, and ease of processing. Used to glue marble, stone, granite, and ceramic and agglomerated materials in a safe and durable way. Adhesion strength, mechanical resistance, and resistance to the the outside are its best qualities. It is also suggested to make gluing such as: metal-stones, ceramics-stones, concrete-stones, concrete-metal, stones-composite panels such as honeycomb. It is advisable to sand and metal before gluing. In this type of gluing it is suggested to check the flatness of the finished piece after one month. This adhesive contains very low amounts of VOCs (volatile organic substances) and complies with the LEED parameters of chapter 4.1 low emitting materials.

Main features

+extra strong bonding

+soft and easy to spread

+fast curing

+ideal for mixed bonding

Surfaces

Natural Stone Ceramic Quartx

+Indoor & Outdoor	n.d.
+low Voc	

CERTIFICATIONS

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TECHNICAL FEATURES

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INSTRUCTIONS FOR USE

The glue and hardener must be kept in the original cans. On the automatic dosing pump, avoid contact with metals made of copper, brass, or similar metals which may rust. Avoid the use of plastic made of PVC, do use only plastic liquid corrosive resistance. Take out from the two containers A and B, the required amounts, IN WEIGHT OR VOLUME, of the two components. Mix very well the 2 parts A+B and proceed to use. During the mixing use clean tools. Ensure that the surface to be treated with the resin is completely dry and clean. In case of automatic dosing pumps, we suggest to verify the ratio every day. To clean the tools, we suggest using a aromatic and light solvent, like, acetone and butyl acetate. Use safety gloves and safety glasses during use (see Safety Data Sheet). Close the cans after using and avoid long exposure to air.

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TECHNICAL DATA

Viscosity part A 25°C	*Very soft tixotropic paste*
Viscosità part B 25°C	*Very soft tixotropic paste*
Density part A / part B at 25°C gr/cm³	1.4 / 1.4
Aspect part A / Aspect part B	Coloured paste
Mixing Ratio in weight	100 +100 =tot 200
Gel time in bulk at 25°C	Approx 30-40 min
Tacky free in thin layer at 25°C, 50% relative humidity	Approx 2h 30min
Tacky free in thin layer at 40°C, 10% relative humidity	Approx 2h
Hardeness in Shore D ASTM D 2240 after postcuring 50°C for 12h	72
Peeling test with glass fiber on marble ASTM 3167	1.0N/mm
Yellowing test in climatic chamber Qsun, (ASTM D904),1 year of outdoor conditions (light + rain+ dark+ thermal shock)	high
Minimum reaction temperature	+10°C
Minimum temperature of use after hardening	-25°C
Maximum temperature of use after hardening	+60°C
Working time at 25°C (time for polishing or cutting)	24 hours
Adhesion on white marble after 24h ASTM D4541	n.a.
Adhesion on white marble after postcuring 50°C for 12 hours ASTM D4541	n.a.
Adhesion on granite after 24h ASTM D4541	n.a.
Adhesion on granite after postcuring 50°C for 12 hours ASTM D4541	n.a.
Adhesion on quartz after 24h ASTM D4541	n.a.
Adhesion on quartz after postcuring 50°C for 12 hours ASTM D4541	n.a.
Adhesion on ceramic after 24h ASTM D4541	n.a.
Adhesion on ceramic after postcuring 50°C for 12 hours ASTM D4541	n.a.
Adhesion on glass after postcuring 50°C for 12 hours ASTM D4541	12 MPa

STORAGE AND SHELF LIFE

The products will last at least 2 years in the normal condition between 18-25°, kept away from sources of heat, humidity, sun light and in unussed and closed original containers.

SAFETY MEASURES

Mastic part A and part B are chemical products, please read the safety data sheet before usage and the rules written on the label on the cans.