

Unique Binder

PolyaStone is a unique UV stable binder which forms the major component of the TopStone® system



Functions:

Binding material for TopStone® surfaces created by bonding the special stones and other fillers offered by TOPSTONE s.r.o.

Advantages:

The main advantage of the product in comparison with the material based on epoxy resin is its 100% resistance to UV degradation. Fast curing even at low temperatures around 2°C.

Characteristics:

- two components
- colorless
- low viscosity
- solvent-free
- aliphatic

PolyaStone

Workability data of PolyStone binder including the fillers (aggregate):

Pot life	At 10°C	40 minutes
	At 20°C	30 minutes
	At 30°C	20 minutes
The surface of the material is not sticky - light load	At 10°C	3 hours
	At 20°C	2 hours
	At 30°C	1.5 hours
The material is fully walkable	At 10°C	12 hours
	At 20°C	4 hours
	At 30°C	5 hours
The material is fully loadable	At 10°C	After 72 hours
	At 20°C	After 48 hours
	At 30°C	After 24 hours

Mixing ratio A:B by weight 1.55:1 or see the label on the packaging.

PolyaStone can't come into the direct contact with water or chemicals during application and curing (do not apply in the rain). The substrate must not contain water-soluble substances such as salts, solvents etc.

Packaging:

The consumption of the material listed here may vary depending on the specific conditions and application. Coverage of binder depends on the type of filler and the desired thickness of the surface.

Retail packaging	1.25 kg twinpack
Wholesale packaging	12.5 kg

Storage:

At temperatures > 0°C < +30°C, in a dry place in the original packaging. For warranty period see details on the packaging.

A Component: Use within one week after opening the package. Do not leave open!

B Component: Use within one week after opening the package. Do not leave open. Reacts with atmospheric moisture.

WARNING!

The humidity of the aggregate significantly accelerates the curing process, therefore it is necessary to work with dried aggregate.

Specifications:

	17.8 N.mm ⁻² (marble with fraction 2-4 mm)
Compressive strength	15.4 N.mm ⁻² (marble with fraction 4-7 mm)
Tensile strength in bending	6.3 N.mm ⁻² (marble with fraction 2-4 mm)
Tensile strength in bending	6.5 N.mm ⁻² (marble with fraction 4-7 mm)
Maximum tensile strength	4.8 MPa
Proportional extension at max. tensile strength	3.9%
Density at 25 °C	A component 1.04 g.cm ⁻³ , B component 1.48 g.cm ⁻³
Viscosity at 25 °C	A component 432.2 mPa.s, B component 905.4 mPa.s

Safety:

Chemical composition - a mixture of polyaspartate resin with a specially formulated curing system. Transportation classification - ADR A comp. 0 and B comp. 8. See the material safety data sheet for more information. Fire extinguishing methods - dry sand, alcohol-resistive foam, CO₂, water mist, powdered limestone. DO NOT USE WATER!!!

H statements, P statements:

A Component

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long-lasting effects.

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment. P280: Wear protective gloves.

P333 + P313: If skin irritation or a rash occurs: Get medical advice/treatment.

P362 + P364: Take off contaminated clothing and wash before reuse.

B Component

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long-lasting effects.

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray. P280: Wear protective gloves.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER / doctor if you feel unwell.

P333 + P313: If skin irritation or a rash occurs: Get medical advice/treatment.

P362 + P364: Take off contaminated clothing and wash before reuse.

P403 + P233: Store in a well ventilated place. Keep container tightly closed.

EUH204: Contains isocyanates. May cause allergic reactions.

A. Component



B Component



The information contained in this document was assembled based on our best experience and knowledge. When using our products according to our recommended procedures listed on the materials for which these products are intended, there should be no harm or damage caused. The material, application techniques, and working and operating conditions are, however, outside our control and therefore our recommendations are only generally valid and cannot be used as the basis for liability.

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