DIVISION OF BUILDING CHEMICALS

# TopStone EP01

## TopStone Adhesive and Priming Screed Material

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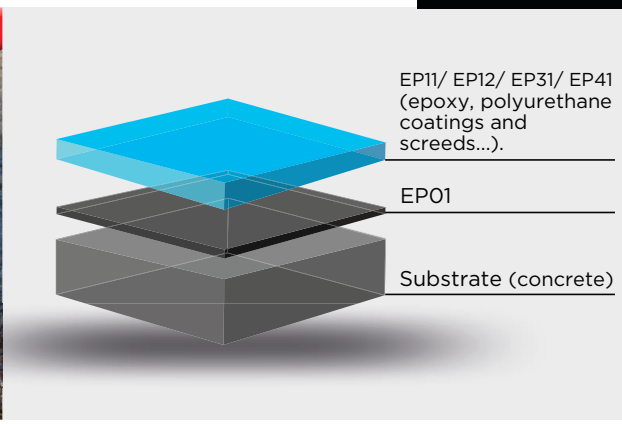


**2-component basic epoxy primer suitable for dry concrete mixes with moisture below 6% and other mineral substructures.**

## Functions:

Priming, binding layer for perfect adhesion of the final TopStone layers to the substructure.

EP01

## Possible use:

- primer for concrete with moisture below 6 %
- primer for dry cement screed, Morfico type, Fortemix etc.
- substructure reinforcement
- anti-dust coating in the double floor system
- lamination
- binder for manually troweled and machine troweled plastic concrete
- binder for levelling layers, reprofiling layers, or polymer cement
- can be used for sealing small potholes, sealing pores etc., when mixed with TopThix
- sealing of cracks (stapling)
- implementation of a cove shaped profile, cavettos at the wall and floor connections

## Advantages:

- simple laying
- excellent mechanical properties
- good priming capability
- multi-purpose material
- low viscosity
- high adhesion
- TopStone pigment can be used for coloration

## Curing acceleration:

| | | Non-sticky, finely grindable, paintable | | Hard grindable | |
|---|---|---|---|---|---|
| | Accelerator -B component dosing | 16°C | 23°C | 16°C | 23°C |
| Thin coating | max. 10 % | 6 hrs. | 5 hrs. | 8 hrs. | 7 hrs. |
| Rough coating, reprofiling | max. 10 % | 5 hrs. | 3,5 hrs. | 7 hrs. | 6 hrs. |
| Polymer concrete approx. 1 cm | max. 10 % | 3 hrs. | 2,5 hrs. | 6 hrs. | 5 hrs. |

## Characteristics:

- epoxy, two-component, colorless, low-viscosity, solvent-free, nonylphenol-free, environmentally friendly

## Processing data:

| | |
|---|---|
| **Material pot life** | 30 minutes at 20 °C |
| **Recommended laying temperature** | > 10°C (+30°C max.) |
| **Walkability** | approx. 20 hours at 20°C |
| **Application of the subsequent layer** | 48 hours at the latest |
| **Fully cured** | 3 days at 20°C |
| **Maximum relative humidity** | 80 % |
| **Dew point** | Beware of condensation. The substrate and uncured coating must have a temperature of at least +3°C higher than the dew point. Low temperatures and high air humidity can lead to the formation of efflorescence (white spots) |

TopStone EP01 can't come into direct contact with water or chemicals during application and curing. The substrate must not contain water-soluble substances such as salts, solvents etc. Do not use diesel burners, gas burners etc. for heating in the application site. They produce CO2 and water vapor in the application site, which has a negative influence on the surface quality.

## Packaging and coverage:

The consumption of the material listed here may vary depending on the specific condition and application.

| | |
|---|---|
| **Retail packaging** | 5 kg appr. 17 m² |
| **Wholesale packaging** | 30 kg appr. 100 m² |
| **Wholesale packaging** | 640 kg appr. 2133 m² |

1. Substrate preparation – remove any impurities, non-cohesive parts, smooth rough areas by, as required, grinding, milling, blasting and subsequently vacuuming the surface, remove grease and other chemicals that can act as a separator.
2. Equipment preparation: container for mixing the two components of the binder according to the instructions, stirrer, paint roller (velour, nylon with short bristles), brush, squeegee, steel trowel.
3. Thoroughly, mix the two A and B components of TopStone EP01 using a slow-turning stirrer for 3 minutes.
4. When ready, apply the material within 30 minutes at 20°C using the appropriate means, such as a paint roller, brush, squeegee, AIRLESS spray method, etc.
5. To increase the adhesion of another layer, dry and clean quartz sand of grain size 0.1-0.5 millimeters (consumption of about 0.5-4.0 kg/m2) can be sprinkled on a fresh, uncured TopStone EP01 surface. Quartz sand can also be added directly into the material (so called reprofiling). Primer is applied using a steel trowel – mixed at the maximum rate for TopStone EP01:quartz sand 1:1.
6. Apply TopStone EP01 at a decreasing temperature to avoid pores being formed by air bubbles in the substrate. If necessary, the primer can be applied in several layers.

## Storage:

At temperatures > +12°C < +25°C, in a dry place in the original packaging. For warranty period see details on the packaging.

**1. Application instructions of the so called „profiling“:** Stir the already thoroughly mixed TOPSTONE EP01 with dry and clear quartz sand of fraction size 0.1 to 0.5 in the ratio of 1:0.5 to 1 (it is good to fill with TopStone flour to the ratio of 1:1 because of the lower subsidence of quartz sand in the mixed state prior to implementation). Appli-cation using a steel trowel.

**Use:** leveling of slight substrate unevenness to a thickness of approx. 1-3 mm with a maximum gradient of 1 %

**2. Laying instructions for the manually troweled polymer concrete:** Mix the thoroughly mixed TopStone EP01 with dry and clean quartz sand (e.g. ISG A1) in the ratio of 1:8. Laying and troweling of the surface using a flat steel trowel. Can also be applied with a gradient. Sample structure for substructure alignment using the manually troweled polymer concrete to a thickness of about 5 mm:

- TopStone EP01 primer ..... approx. 0.5 kg/m²
- TopStone EP01 polymer concrete ..... approx. 1.1 kg / m² + polymer concrete sand 8.8 kg/m²
- TopStone EP01 polymer concrete sealing ..... approx. 0.6 kg/m² (followed by TopStone EP11 finish etc. including the primer)

**Use:** Levelling of more serious substructure unevenness of smaller areas. It allows levelling of the substructure with the desired gradient. Filling of „pockets“ caused by object expansion joints. Ramps for object expansion joints Implementation of cavettos / cove shaped profiles. Particularly suitable in highly mechanically stressed industrial buildings, warehouses, service stations etc.

**3. Laying instructions for the machine-troweled polymer concrete:** Mix the thoroughly mixed TopStone EP01 with dry and clean quartz sand (e.g. sand and polymer concrete) in the ratio of 1:10. Laying the mixture using a dosing trolley. The mixture must be machine-troweled within the pot life to the desired flatness. If the polymer concrete is not perfectly troweled when sealed with the finish coating, the trowel strokes may become visible over time in places with height inequalities (caused by mechanical stress of the floor).
Sample structure for levelling the substructure using a machine-troweled polymer concrete with thickness of about 5 mm:

- TopStone EP01 primer ..... approx. 0.5 kg/m²
- TopStone EP01 polymer concrete ..... approx. 1.45 kg / m² + polymer concrete sand 14.5 kg/m²
- TopStone EP01 polymer concrete sealing ..... approx. 0.6 kg/m² (followed by TopStone EP11 finish etc. including the primer)

**Use:** Levelling of more serious substructure unevenness of larger areas. Filling of „pockets“ caused by object expansion joints. Ramps for object expansion joints. Implementation of cavettos / cove shaped profiles. Machine troweling significantly increases the compressive strength. Particularly suitable in highly mechanically stressed industrial buildings, warehouses, service stations etc.

**4. The instructions for creating a suitable putty for sealing small holes and pores:** Mix the already thoroughly mixed TopStone EP01 with TopThix in the ratio of about 10-15:1. Application using a steel trowel or spattle. Vertical surfaces can also be sealed.

**Application:** sealing cracks, filling small potholes, sealing joints, sealing vertical surfaces, small cove shaped profiles, attaching

**5. TopStone EP01 can also be used as a sealant, anchoring, bonding, grouting, anti-dust coating for the double-floor system**

Apply TopStone EP01 to the surface immediately after mixing. Failure to do so will result in the risk that, during any remix (after more than 5-10 minutes), a sharp exothermic reaction will spontaneously occur = fast hardening. Make sure to clean all tools and skin of any uncured material with acetone, remove the cured material mechanically – with sandpaper, grinder, etc.

## H statements, P statements:

**A Component:** H315, H317, H319, H411, P280, P302+P352, P305+P351+P338, P310, P333+P313, P362, P391, P501
**B Component:** H302, H312, H314, H317, H332, H411, H412, P264, P270, P271, P280, P301+P330+P331, P3020+P352, P303+P361+P353, P305+P351+P338, P312, P333+P313, P363, P391, P405, P501

## Technical data:

| | |
|---|---|
| **Base** | Epoxy |
| **Comp A** | brownish liquid |
| **Comp B** | brownish liquid |
| **Specific weight A+B** | 1,1 kg/l |
| **Consumption** | appr.0,3 - 0,5 kg/m² |
| **Fire reaction** | BflS1 |
| **Concrete adhesion** | ≥ 1,5 MPa |

Mixing ratio A: B by weight 2 : 1 or see the label on the packaging.

**Safety**

Chemical composition – a mixture of epoxy resin with a specially formulated curing system. Transportation classification - ADR comp. A 9 and comp. B 8. See the material safety data sheet for more information. Fire extinguishing methods - dry sand, alcohol-resistive foam, CO2, water mist. DO NOT EXTINGUISH WITH WATER!!!

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