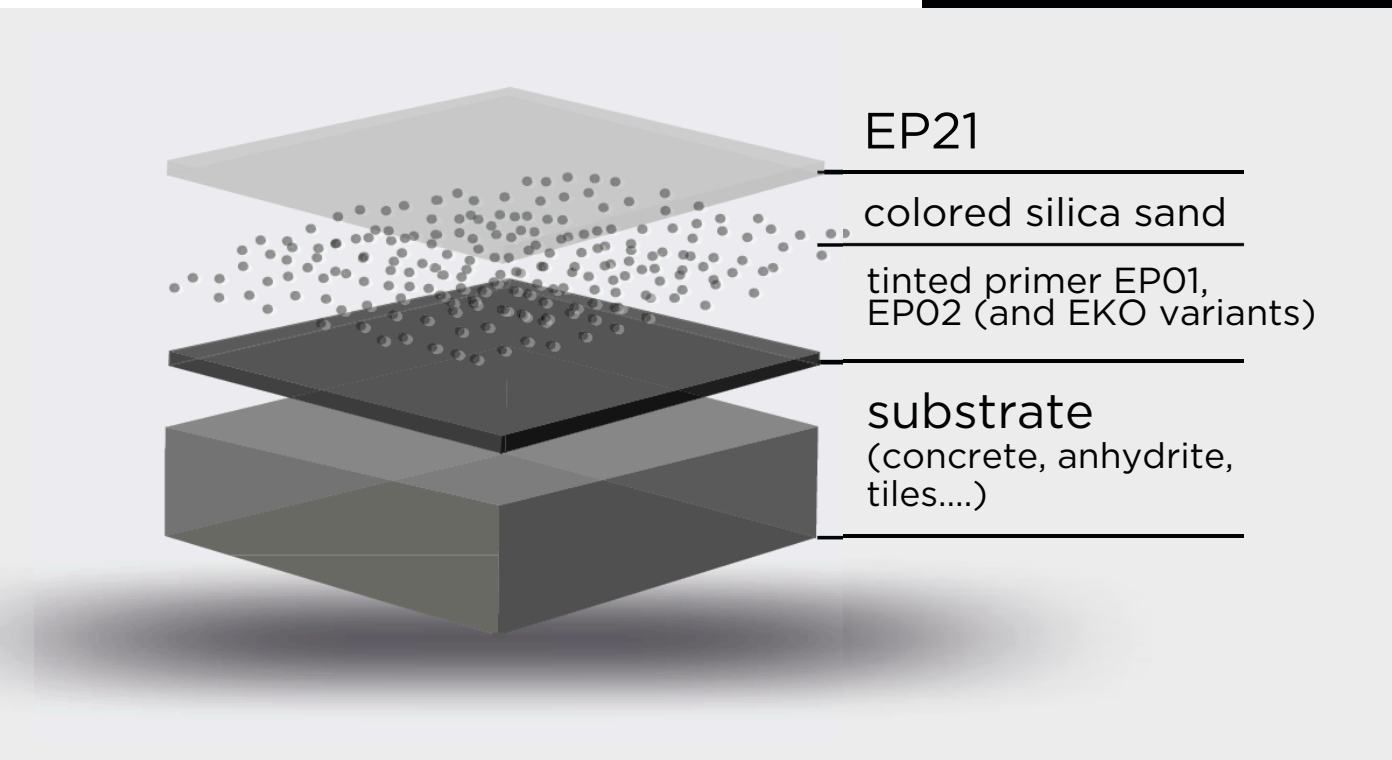




# TopStone EP21

clear multipurpose varnish, coating, sealing of colored sand



## 2-component epoxy multipurpose compound

### Functions:

Final clear topcoat for selected TopStone epoxy surfaces and colored silica sands.

### Possible use:

- sealing layer, intermediate layer, for darker colored silica sands. For example: school kitchens, healthcare facility kitchens.
- kitchens in manufacturing plants, dining halls, production areas, exhibition halls, galleries, corridors, and generally anywhere higher requirements for aesthetics and mechanical surface durability are needed
- protective sealing coat on TopStone EP11 screed in darker shades
- protective sealing coat on TopStone EP11 screed sprinkled with colored chips
- by adding the special TopStop filler, an anti-slip protective coating for interiors can be created, suitable for both horizontal and vertical surfaces

### Advantages:

- excellent clarity, up to a maximum consumption of 1,2 kg/m<sup>2</sup>
- aesthetic anti-slip or smooth surface
- excellent mechanical properties
- good chemical resistance
- multipurpose
- waterproof
- easy cleaning of the finished surface
- glossy finish

# EP21

### Characteristics:

Epoxy, two-component, clear, low-viscosity, solvent- and nonylphenol-free, environmentally friendly

### Processing data:

<b>Material pot life</b>	20 minutes at temperature 20°C
<b>Recommended application temperature</b>	> 10°C (+30°C max.)
<b>At low temperature</b>	slow curing
<b>At high temperature</b>	fast curing
<b>Surface usability at 20°C</b>	Next layer after approximately 24 hours. Surface walkable after 24 hours. Fully cured in 7 days.

During application and creation, TopStone EP21 must not come into direct contact with water and chemicals. Do not use oil and gas burners for space heating, which produce CO<sub>2</sub> and water vapor. Epoxies are not UV stable.

### Packaging and coverage:

The indicated material consumption may vary depending on specific conditions and the particular application.

<b>Retail packaging</b>	5kg	yield 0,3 - 1,2 kg/m <sup>2</sup>
<b>Wholesale packaging</b>	25kg	yield 0,3 - 1,2 kg/m <sup>2</sup>

### Storage:

At temperatures between > +12°C and < +25°C, in a dry place, in the original packaging. Shelf life: see information on the packaging.

### Instructions:

1. Apply the TopStone EP21 system, as described below, to the cured TopStone EP11 surface or colored silica sand.
2. Tool preparation: container for mixing the two-component binder according to instructions, mixer, steel trowel, rubber squeegee, nylon or velour roller, deaeration roller (only for higher consumption of the coating).
3. Thoroughly mix both components A and B of TopStone EP21 using a slow-speed paddle mixer for 3 minutes.
4. Process the prepared material within 20 minutes at 20°C using a suitable technique, e.g., rolling, steel trowel, or rubber squeegee.
5. Apply TopStone EP21 as the temperature rises to reduce the risk of condensation of atmospheric moisture on the surface.

**WARNING!** Never scrape or pour out the mixed material from the container, as this may result in areas that do not cure properly.



# TIPS FOR APPLICATION:

**1. Instructions for applying the sealing coat:** Apply at a consumption of approximately 0,80 kg/m<sup>2</sup> using a velour or felt roller to a fully cured TopStone EP11 surface or other recommended TopStone surfaces.

**Usage:** Protective sealing layer for TopStone EP11 or TopStone EP11 sprinkled with colored chips. Repeat the coating if necessary.

**2. Instructions for applying the TopStop Interior anti-slip coating:** On a fully cured TopStone EP11 surface or other recommended TopStone surface, apply the TopStone EP21 anti-slip coating. First, mix components A and B, then add 6 % of the special TopStop Interior anti-slip filler to the mixed material and mix thoroughly. Apply the anti-slip coating immediately after adding the filler at a consumption of approximately 0,10 kg/m<sup>2</sup>.

**Warning:**

- consumption below 0.10 kg/m<sup>2</sup> = the material may not level properly, potentially causing the formation of so-called “fish eyes”
- consumption above 0.10 kg/m<sup>2</sup> = the filler may become overcoated, preventing the desired anti-slip surface

**Usage:** Surfaces with increased anti-slip requirements. Suitable for dining areas, corridors, shops, locker rooms, restrooms, office spaces, showrooms, car dealerships, etc.

**3. Instructions for applying an anti-slip surface with colored sands:** Apply with a steel trowel or rubber squeegee onto the prepared sanded surface. Then roll over in a “cross” pattern.

**Typical composition of the anti-slip surface, thickness approx. 2.0–3.0 mm:**

- primer TopStone EP01, EP02 and EKO variants..... approx. 0.5 kg/m<sup>2</sup>
- colored silica sand, fraction 0.3–0.8 mm..... approx. 3.5 kg/m<sup>2</sup>
- intermediate layer TopStone EP21..... approx. 0.8 kg/m<sup>2</sup>
- colored silica sand, fraction 0.3–0.8 mm..... approx. 3.5 kg/m<sup>2</sup>
- sealing layer TopStone EP21..... approx. 0.6 kg/m<sup>2</sup>
- sealing layer TopStone EP21..... approx. 0.3 kg/m<sup>2</sup>

TopStone EP21 must be applied immediately after mixing. If not applied promptly, re-mixing after 5–10 minutes may trigger a spontaneous, rapid exothermic reaction = fast curing. Clean tools and skin from uncured material with TopStone Cleaner or acetone; cured material must be removed mechanically – with sandpaper, grinder, etc.

## H statements, P statements:

**Component A:** H315, H317, H319, H411, P280, P302+P352, P305+P351+P338, P310, P333+P313, P362, P391, P501

**Component B:** 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:

Pot life / Working time	20 min
Compressive strength	85 MPa
Flexural strength	40 MPa
Specific gravity / Density	1,14 kg/l
Adhesion to concrete	2,97 MPa
Reaction to fire	BfIS1
Slip resistance (dry - wet)	meets (≥0,5) according to ČSN 74 4505
Consumption	0,3 - 1,2 kg/m <sup>2</sup>

Mixing ratio A : B by weight 2,1 : 1 or according to the label on the packaging.

### Safety

Chemical composition – a mixture of epoxy resin with a specially formulated hardening system. Transport classification – ADR class A9 and class B8. Further information is provided in the safety data sheet. Extinguishing method – dry sand, alcohol-resistant foam, CO<sub>2</sub>, water mist. DO NOT USE WATER!!!

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