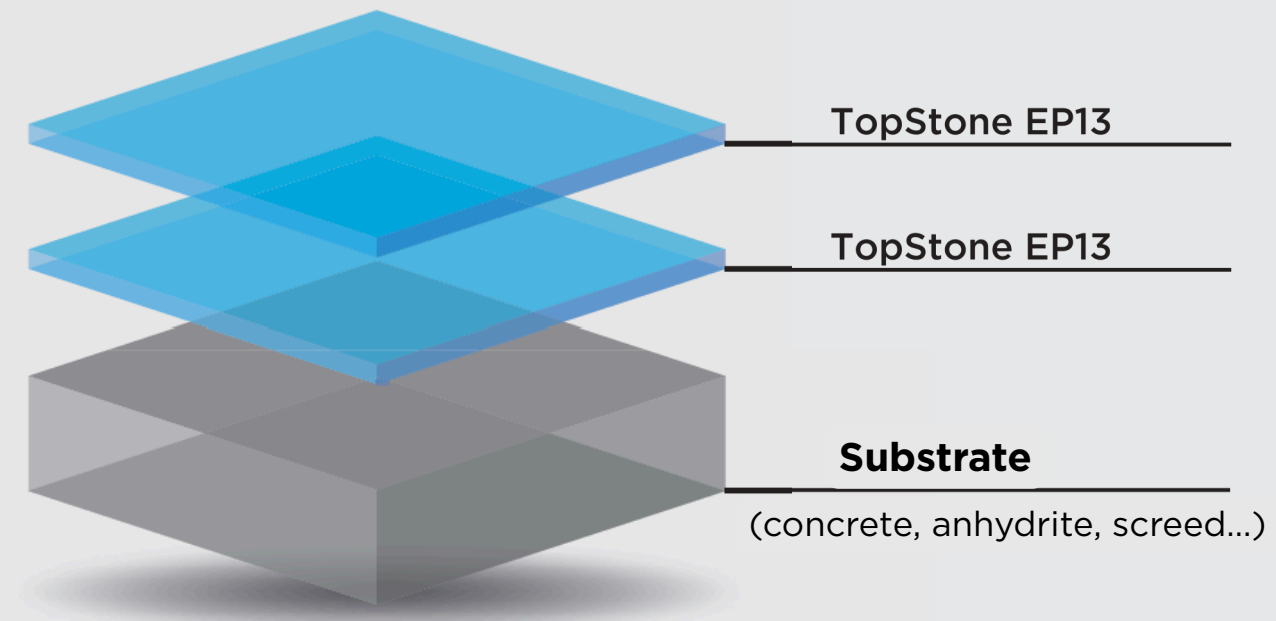




TopStone EP13

water-based, vapor-permeable, matte coating

10.12.2024 ver. 4



2-component colored water-based epoxy coating

Functions:

Final surface finish with optimal adhesion directly to concrete, screeds, cement-based screeds, and cement plasters.

Possible use:

- non-insulated concrete, foundation slabs, so-called 'white tanks'
- garages, warehouses, production halls
- floor coating for areas with lower mechanical load, e.g., basement compartments, machine rooms, small storage areas, technical rooms, etc.
- coating of stair flights, landings, and intermediate landings
- coating of cement plasters
- coating of plinths and covings (fabions)
- system broadcasted with silica sand
- possibility to create a non-slip coating after adding silica sand
- implementation of horizontal traffic markings

Advantages:

- resistant to petroleum products (gasoline, diesel)
- vapor-permeable, allows water vapor to pass through
- matte surface
- suitable for non-insulated concrete
- easy application
- good chemical resistance
- good mechanical resistance
- selection of color shades
- minimal consumption/cost savings

Characteristics:

Epoxy, two-component, pigmented, solvent-free and nonylphenol-free, environmentally friendly.

Processing data:

Material pot life	60 minutes at temperature 20°C
Recommended application temperature	> 10°C (+30°C max.)
At low temperature	slow curing
At high temperature	fast curing
Surface usability at 20°C	Walkable: at 10°C after 48 h, at 20°C after 24 h, at 30°C after 12 h, full load after 7 days Dust free time, adhesion, recoating ability: 10°C after 12 hours, a second layer can be applied; non-sticky 20°C after 12 hours, a second layer can be applied; non-sticky 30°C after 12 hours, a second layer can be applied; non-sticky Full load: 10°C - 10 days, 20°C - 7 days, 30°C - 5 days Light operational load: 10°C - 5 days, 20°C - 3 days, 30°C - 2 days
Thinning:	After mixing A:B in the correct ratio, it can be thinned with water up to a maximum of 10% of the weight of the A and B mixture.

During application and creation, TopStone EP13 must not come into direct contact with water and chemicals. Do not use oil and gas burners for space heating, which produce CO₂ and water vapor. Epoxies are not UV stable. For light shades, multiple coating layers should be considered.

EP
13

Packaging and coverage:

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

Retail packaging	5kg	≈ 25 m ² (coverage 0.10 - 0.30 kg/m ²)
Wholesale packaging	25kg	≈ 125 m ² (coverage 0.10 - 0.30 kg/m ²)

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 EP13 system described below on a ground concrete or cement substrate.
2. Preparation of tools: a container for mixing the two-component binder according to the instructions, a mixer, and a short-pile roller.
3. Before mixing, thoroughly stir components A and B separately. Then gradually add component B in the prescribed mixing ratio and mix intensively with an electric mixer (max. 300 rpm). The mixing time must be at least 3 minutes and must be strictly observed! Mixing is complete when a homogeneous mixture is achieved.
4. Process the prepared material within 60 minutes at 20°C. Apply an even layer with a brush or roller (if necessary, two layers) and avoid the formation of air bubbles or other surface imperfections.

TIPS FOR APPLICATION:

1. **Application instructions:** apply at a rate of approximately 0.10 – 0.30 kg/m² directly onto a concrete or cement substrate using a velour/nylon, felt roller, or brush.

Usage: Garages, cellar compartments, machine rooms, technical rooms, stair flights, landings, intermediate landings, horizontal traffic markings, coatings of plinths, and areas with light mechanical load.

2. **Anti-slip coating application instructions:** Mix component A and B, then add fine silica sand (fraction 0.1 – 0.3 mm) or TopStone filler to the mixed material and stir (EP13 : sand = 4 : 1). Apply with a flat steel trowel and smooth the surface using a velour or felt roller.

Usage: Surfaces requiring enhanced slip resistance.

3. **Wall coating application instructions:** Apply using a felt roller. Example wall coating system:

1st layer – TopStone EP13 coating: approx. 0.10–0.20 kg/m²

2nd layer – TopStone EP13 coating: approx. 0.10–0.20 kg/m²

(For coatings with lower coverage, apply an additional layer to achieve complete coverage.)

Usage: Residential buildings, shopping centers, single-family houses, production halls, warehouses, etc.

4. **Broadcasted/anti-slip surface application instructions:** Apply using a velour, felt, or nylon roller. Example system:

1st layer – TopStone EP02 primer: approx. 0.50 kg/m²

broadcast with silica sand, sweep away loose sand, lightly grind, and vacuum.

2nd layer – TopStone EP13 coating: approx. 0.30 kg/m²

3rd layer – TopStone EP13 coating: approx. 0.30 kg/m²

Usage: Garages on foundation slabs (so-called “white tubs”), production halls, warehouse halls, etc.

TopStone EP13 should be applied immediately after mixing. If this is not done, there is a risk that upon remixing (after more than 5–10 minutes) a spontaneous, intense exothermic reaction may occur, resulting in rapid curing. Clean tools and skin of any uncured material using TopStone Cleaner or acetone; cured material must be removed mechanically – with sandpaper, a 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	60 min
Specific gravity	1,49 kg/l
Adhesion to concrete	1,88 MPa (concrete failure) 3,50 MPa (adhesive) on a concrete tile
Reaction to fire	BflS1
Material consumption	0,10–0,30 kg/m ² (depending on the substrate absorbency)
Viscosity at 25 °C	Mixture A a B: 1450 mPa.s A: 3058 mPa.s; B: 1010 mPa.s
Chemical resistance good****, poor*	acetone*, water****, i-PrOH****, DMSO*
Vapor permeability according to ČSN EN ISO 7783	Class I Sd < 5 m permeable to water vapor, Sd = 0,25 m

Mixing ratio A : B by weight 1 : 3,65 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, CO₂, water mist.

DO NOT USE WATER!!!

The information and data contained in this document have been compiled based on our best knowledge and experience. When our products are used according to the recommended procedures on materials for which they are intended, no damage or harm should occur. However, the material, application technique, and working or operational conditions are beyond our control; therefore, our recommendations are of a general nature and cannot be used as a basis for liability.

TOPSTONE s.r.o.
Družstevní 442,753 01 Hranice
Česká republika
+420 580 582580 | info@topstone.cz
www.topstone.cz

ISO 9001, ISO 14001

Slovenská republika
TOPSTONE Slovensko s.r.o.
prevádzka Vrbovská cesta 123
921 01 Piešťany
+421 918 459 563 | info@topstone.sk

www.topstone.sk

PARTNER / PRODEJCE: