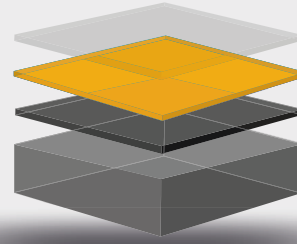








# TopStone PU11

polyurethane screed TopStone



-  Polyurethane matte coating TopStone PU23/PU24
-  Polyurethane screed TopStone PU11
-  Epoxy primer TopStone EP01 or EP02 (varianty EKO)
-  Substrate (concrete, anhydrit)

## 2-component polyurethane material

### Function:

Surface color finish with perfect adherence to the TopStone primer.

### Possible use:

- elastic self-leveling layer
- decorative floor treatment
- particularly suitable for hospitals, schools, business premises, shops, showrooms,
- entrance halls, offices, museums, living areas of family houses/apartments

### Advantages:

- simple laying
- permanently flexible
- very low emissions of volatile substances
- solvent-free
- excellent mechanical properties
- high resistance to yellowing
- reduces the transmission of footfall noise
- decorative surface by sprinkling colored chips, etc.
- low maintenance requirements
- selection from most RAL shades

### Charakteristics:

- 2-component, flexible, colored polyurethane resin with self-levelling capabilities, low emissions of volatile substances, solvent-free, environmentally friendly

# PU 11

During application and curing, TopStone PU11 must not come into direct contact with water and chemicals. Do not use diesel burners, gas burners etc. for heating in the application site. They produce CO<sub>2</sub> and water vapor in the application site, which has a negative influence on the surface quality. For light shades we recommend colored priming.

### Workability data:

<b>Material pot life</b>	+10 °C/90 min., +20 °C/30 min., +30 °C/20 min.			
<b>Recommended laying temperature</b>	+ 20 °C			
<b>Curing time</b>	Substrate temp.	Walkability	Light load	Fully cured
	+10 °C	30 hours	48 hours	7 days
	+20 °C	16 hours	24 hours	4 days
	+30 °C	12 hours	18 hours	3 days

### Packaging and coverage:

The stated material consumption may vary according to specific conditions and specific application.

Retail packaging	5 kg - screed 1,8-2,5 m <sup>2</sup>
Wholesale packaging	25 kg - screed 9,0-12,5 m <sup>2</sup>

### Instructions for USE:

1. Apply the TopStone PU11 material (approx. 12-24 hours after the application of TopStone primer) on the cured TopStone Primer layer surface (EP01, EP02 od ECO options) using the technology described above.
2. Preparation of tools: a container for mixing the two components of the binder according to the instructions, stirrer, rubber, squeegee, steel notched or flat trowel, aeration roller, nylon or velour roller.
3. Thoroughly mix the two A and B components of TopStone PU11 according to the mixing ratio on the label, using a slow-turning stirrer for 3 minutes, preferably put the mixture into another container and stir briefly.
4. When ready, apply the material within 30 minutes at 20 °C using the appropriate techniques, such as spreading with a roller or a notched or flat steel trowel.



**CAUTION!** Neither scrape out nor let drip the mixture from the package as there is a high risk of uncured areas. **CAUTION!** Before applying the TopStone EP11 material, make sure the surface is completely primed, without bubbles, inflows and other defects. TopStone Filler, or new primer can be applied again, if necessary.

## STONE'S ADVICE:



**1. Cast screed application instructions:** pour the material onto the substrate and spread it evenly with a notched trowel, use a needle roller to remove all air bubbles. Sprinkle with colored chips if desired. As soon as the PU11 surface is walkable/non-sticky, apply the TopStone PU23 (0.1 kg/m<sup>2</sup>)/PU24 (0.1 kg/m<sup>2</sup>). The material must always be coated with TopStone PU23/PU24 sealing coating. Chemical resistance according to the TopStone chemical resistance table, which you can request at sales@topstone.cz

Design of floor layers:

1. layer - primer TopStone EP01/EP01 EKO/EP02/EP02 EKO/EP02 O .....approx 0,50 kg/m<sup>2</sup>
2. layer - primer TopStone EP01/EP01 EKO/EP02/EP02 EKO/EP02 O .....approx 0,50 kg/m<sup>2</sup>
3. layer - stěrka TopStone PU11.....approx - 2,80kg/m<sup>2</sup>  
(it is possible to pour in colored chips - a light sprinkle)
4. Variant A - matte coating TopStone PU23.....2 x approx 0,05 kg/m<sup>2</sup> ( 2 times to coat )  
Variant B - matte coating TopStone PU24.....1 x approx 0.1 kg/m<sup>2</sup> ( 1 time to coat )

**2. Instructions for laying of the creative surface:** (apply two colors with the consumption of 2-3 kg), apply the two mixed colors on a perfectly cured and primed TopStone surface using a flat steel trowel, and create a mixture of colors, choose the contrast between colors depending on the frequency of moves of the trowel, use either straight trowel strokes or arccurved trowel strokes.

Apply TopStone PU11 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

For long-term protection of topcoats, W-type castors should be used for mobile chairs. At the same time, we recommend using transparent polycarbonate protective pads. Sliding loads can damage the squeegee or scratch the topcoat. We therefore recommend the establishment of sufficient cleaning zones to prevent the introduction of sand and dirt onto the surface.

### Processing data:

Hardness Shore D:	42 (14 days / +20 °C) (DIN 53505)
Viskozity (25 °C):	comp. A 10 770 mPa.s, B 700 mPa.s, A+B 3 514 mPa.s
Density:	1,35 kg/dm <sup>3</sup>
Elongation at break:	66 % (14 days / +20 °C) (DIN 53504)
Tear strenght:	15 N/mm (14 days / +20 °C) (ISO 34-1)
Volume of (VOS)	< 500 g/L (EU 2004/42/ES)
Consumption	2,0 - 2,8 kg/m <sup>2</sup>

Mixing ratio A : B by weight 3,2 : 1 or see the label on the packaging.

### Safety

Chemical composition - mixture of polyurethane resin and aliphatic hardener. Transport classification - not dangerous goods for transport. Further information is provided in the safety data sheet. Extinguishing method - dry sand, alcohol-resistant foam, CO<sub>2</sub>, water fog. DO NOT USE WATER!!!

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### PARTNER / SELLER: