

Installation Instructions

for **TopWall / PolyStone Wall** Surface

Application of stone carpets on vertical surfaces without formwork (fixation)

TOPSTONE[®]
The creator of stone surface



Temperatures for the installation: +10°C to +25°C (recommended), +5°C to +35°C (limit) for the installation of laying PolyStone Wall 5°C to +25°C
The temperature of air and substrate must not drop below 5°C during implementation and curing.

1. Evaluate the consistency and strength of the substrate.
2. Prepare a set of implementation tools: Steel trowel, scale, pail or bucket (about 24 l) for stirring the TopWall / PolyStone Wall mixture (wooden stirrer or steel stirrer mounted on a drill), TopCleaner or technical acetone, gloves, goggles, clothing, clothes for cleaning, spatula or rubber squeegee.
3. Outline a schedule with respect to the pot life of the mixture, which is 30 minutes at 20°C (15 to 20 minutes at 20°C and relative humidity of about 40 %) and is reduced when the ambient temperature is higher. It is recommended to mix a smaller amount of material in case of more complex details.
4. Prepare the substrate properly - remove any loose parts by grinding, vacuuming or sweeping away.
5. Select the type of TopWall / PolyStone Wall surface border:
 - With a sharp edge - stretch the mixture to a planed board with separator. After the curing of the material is finished, remove the board to get a sharp edge.
 - End with a molding - use L-shaped terminal strip at the height of the TopWall / PolyStone Wall surface you are implementing. Glue the terminal strip with the TopFiller putty and stretch the TopWall / PolyStone Wall mixture to it.
 - "Gradient" - i.e. gradually decrease the height of the mixture to the substrate.
6. Glue the expansion and terminal strips with a putty, e.g. TopFiller (according to the label on the package).
7. **Let's move to the installation of TopWall / PolyStone Wall surface:**
First, thoroughly mix both components of TopWall / PolyStone Wall binder (component A and B) in a separate small plastic container. Mixing ratios of the components are listed on the label on their packaging. Measure the amount with a scale. Thoroughly mix the two components (max. 1.5 minutes) using a slow-turning mixer.
8. Prime the prepared and degreased surface with a part of TopWall / PolyStone Wall binder. You can push reinforcing fabric into the priming to harden the substrate. Apply priming with cross strokes (with a spatula, trowel or rubber squeegee).
 - 3.6 kg packing (0.5 kg of primer, 3.1 kg of TopWall / PolyStone Wall binder + 25 kg of filler)
 - 2.6 kg packing (0.5 kg of primer, 2.1 kg of TopWall / PolyStone Wall binder + 25 kg of filler)
9. Prepare a larger plastic container (24 liters) in the next step, put half of the total volume of the processed stones into the container (dry stone is recommended for better processing) and the necessary amount of binder. Stir the mixture thoroughly (about 1.5 min) using a drill, so it gets homogeneous.
Recommendation: We recommend to divide stirring and installation of TopWall / PolyStone Wall surface to small batches (e.g. into fourths by 6.25 kg) for better processability and better mixing.
You will need 6.25 kg of stones and the following amount of binder: Fraction size 2-4 mm - 900 g of binder (550 g of comp. A, 350 g of comp. B), 125 g of the mixture to be used for priming Fraction size 4-7 mm - 650 g of binder (400 g of comp. A, 250 g of comp. B), 125 g of the mixture to be used for priming
10. Applying onto the wall from the bottom up. Apply to live primer from the lower edge with a steel trowel - apply the material gradually and pull downwards to make sure the filler is compacted enough. Clean the metal trowel with TopCleaner product during application. When installing the system on a larger area or when processing in several stages or days is necessary, it is possible to interrupt the installation and finish the surface with a so-called "sharp edge". If you stretch the mixture to a planed board (with a separator), you can continue the next day after removing the board without any problems. (The daywork joint remains visible). We recommend to watch the instructional video and the manual on our website prior to the implementation of vertical surfaces without formwork: <http://www.topstone.cz/radce-nakupem/videonavody>
11. We recommend to enclose the structure of TopWall / PolyStone Wall with the TopGel product (according to the instructions indicated on the label), when applying to wet areas (showers...).

When can I apply a load to TopWall / PolyStone Wall surface? A slight load can be applied to the newly installed surface 24 hours after the completion at the ambient temperature of 20°C. The surface is fully cured after 7 days at 20°C. More time is required in case of ambient temperatures below 20°C. And vice-versa, a shorter period of time is required at higher temperatures. Do not apply mechanical or chemical load to TopWall / PolyStone Wall surface within the first 24 hours after completion!

Good luck with the installation! Your TOPSTONE

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TopWall / PolyStone Wall System Maintenance



Treatment Warranty Conditions

TopWall System Characteristics:

Long life, surface without joints, good thermal conductivity, easy formability, high durability, easy maintenance, environmentally safe, fast installation

Basic characteristics	Level	Classes
Compressive strength	16 Mpa	C 16
Tensile strength in bending	6 MPa	F 6
Impact Resistance	60 Nm	IR 60
Adhesion	5.05 N / mm ²	B 5.0
Reaction to fire	Bfl	---
Slip resistance (dry - wet)	Meets (> 0.5) according to ČSN 74 4505	---

Maintenance and Cleaning Methods

Interior: Maintenance is similar to standard complete tile surface cleaning, i.e. damp cloth cleaning if needed, plus thorough cleaning with a steam cleaning machine or a brush every year (or according to your needs). Greasy dirt can be cleaned with warm water and a brush, or with a sponge with standard detergents.

Exterior: Regular mechanical maintenance: broom, brush, floor rubber scraper, high pressure water with temperature below 40°C, steam. Chemical maintenance with common detergents, strong stains can be removed with e.g. benzine, acetone.

TopWall System Treatment

In the event of a damage to the wall, such as punctures, cracks, deep scratches, burns, etc., and in case of other types of damage, you should immediately notify the person responsible for installation and avoid large-scale defects with a quick repair. In case of a chemical spill on the wall other than the allowed chemical loads mentioned above, it is necessary to immediately remove the chemicals and neutralize the surface - exposure can cause a change of color and surface degradation.

Warranty conditions

The surface must be used for its intended purpose. It cannot be extremely mechanically stressed, intentionally damaged and treated unprofessionally with unsuitable products. You must follow the technological procedure for laying specified by the manufacturer, which means that the laying must be performed on a substrate that is solid and coherent. Binder components must be thoroughly mixed in the exact ratio stated on the label.

Application temperature: from +5°C to +35°C (5-25°C in case of PolyStone Wall). TopWall material can only be installed on dry or damp surfaces (with the maximum residual moisture in the substrate less than 4 %). Division of floor, so-called expansion gaps, must be secured with a strip.

The warranty does not cover defects resulting from improper or inappropriate use, incorrect method of laying which does not respect the workflow described above, mechanical damages, improper handling and care, as well as defects originating in the hidden defects of base layers, removing the base layer, subsidence (cracking) of constructions (paved surfaces), or their parts caused by force majeure and other reasons for which the seller is not responsible. The warranty also does not cover normal wear and tear, slight discoloration caused by UV radiation or using different lots of filler.

Warranty period

24 months for the delivery including installation of the surface by TOPSTONE company or a certified installation company, a business partner.

The expiration time of the material can be found on the label of each package.



PARTNER / DEALER:

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