

FACADE PROFILES OF EPS

decorative facade profile and elements
made of EPS with high density
and protective polymer cement-based coating

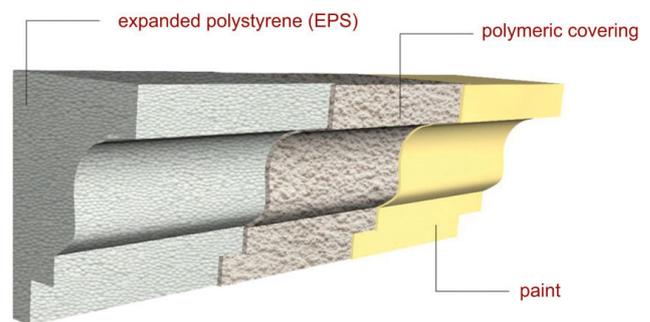


Scope of use

The decorative facade profiles are made of expanded polystyrene (EPS) with high density and are protected by a surface layer of a cement-based polymer coating to protect them from aging and gives them a natural look. Due to their elasticity they do not change their properties over time. Their installation is easy and hassle-free to all types of facade coatings; it does not require specific and time-consuming preparation of the base.

Due to its low weight it does not require additional mechanical strengthening and the installation is done only with the use of polymer adhesive. The profiles can be cut on the required length and at the desired angle with a simple hand tool for cutting, without breaking the surface layer. The protective polymer coating can be painted with all kinds of facade paints in a wide range of colors in sync with the main color of the facade and the whole idea of the building.

An element of the systems for facade design TERMOFLEX®. It is suitable both for the construction of new and the renovation of old buildings and facades.



Properties

- simple and effective individual decoration of facades
- custom-made by clients projects
- made of light materials, which do not load the base
- protected with a durable coating that is resistant to weather conditions
- way shorter time for production and delivery in comparison with profiles of gypsum, stones, etc.
- easy installation and safety at work

Composition

Profile made of EPS with cement-based polymer coating.

Packaging and indicative consumption

Packaging:

Profiles with length of 2000 mm

Consumption:

1 m/ml

Expiration date and storage

Keep indoors and in dry place at a temperature from +5°C to +30°C.

In unopened packaging and properly stored the product is good for use for 24 months after production date.

Instructions for use

Preparation of the base

The surface on which the decorative profiles of EPS will be installed has to be mineral base, to be strong, with a good load capacity and it should not contain any separating substances that could interfere with the adhesion (grease, bitumen, dust).

It must be absolutely dry, clean, stable and without cracks. All loose, unsound and mechanically weak areas should be removed. All dirt and vapor tight coatings should be removed completely (with steam cleaner at high pressure).

Efflorescence on the base is sweep and dry brushed. Old walls without coating or with such with sufficient strength are cleaned from the dust with a brush, after which are sweep with water under pressure and are left to dry completely. At bases, soaked with moisture, the source of moisture is removed and then they are let to dry completely.

Areas with development of mold and fungi are treated with an appropriate cleaning detergent as the instructions for work with the detergent are respected. The already treated mold is carefully cleaned mechanically (by scraping), so that the light spores of the infection are not spread over the neighboring areas, after that the place is disinfected again with the same detergent and it is let to dry.

All slightly crumby and sandy bases are primed and strengthened with NANOGRUND® - DEEPLY PENETRATING PRIMER WITH NANO PARTICLES, at least 4-5 hours before the bonding. Bases with high absorbing properties (walls from aerated concrete or gypsum blacks), are primed with POROGRUND® – PRIMER FOR POROUS BASES.

The surface on which the profiles are going to be installed has to be well leveled with maximum deviation of 1 cm per meter. Greater irregularities should be repaired and pre-aligned with rough lime-cement plaster TERAFLIX® MASTER FIX, at least three days before the installation of the profiles.

Installation of the profiles

The installation of the profiles is done after the application of the decorative plaster. For this purpose on the façade is drawn and affixed a strip with width about 1 cm narrower than the width of the bonding the profiles. This area should remain bare of plaster. Only after its complete drying, the bonding of the profiles could be started.



In order to ensure the straight line of alignment of the profiles, their precise positioning should be carried out with a leveler or by using a powder drawing instrument with twine. With their help the position of the profiles on the facade is marked. On the bottom line, over 1 m are

hammered nails for concrete, on which the profiles lie down while they are installed and which prevent their displacement and falling. After the adhesive has dried and the profiles are fixed (24 hours), the nails are removed.

By the use of saw the profiles can be shortened and cropped under the necessary angle (when installing the profiles around outer and inner edges of the facade).

The installation of the profiles and their bonding on mineral bases is performed with TEHNOCLAY® ADHESIVE FOR DECORATIVE PROFILE FROM EPS. By using a polyurethane adhesive TERMOFLEX® PU CONTACT the profiles can be bonded both on mineral and organic bases, as before that it is recommended to test the strength of adhesion to the base.



Using a notched trowel (4x4 mm), TEHNOCLAY® ADHESIVE FOR DECORATIVE PROFILE FROM EPS is applied first on the base in the marked area. Small unevenness can be leveled with more adhesive. After that the adhesive is applied on the entire surface, on the back of the profile, which with slight, side movements is pressed against the wall in order to optimize the adhesion. The indicative consumption of the adhesive is about 8 kg/m².

When the profile is positioned and fixed the excessive adhesive is removed with the help of spatula. The alignment of the profiles and adjustments in their leveling can be performed within 5 to 10 minutes after their fixation. In the joints, between the profiles and their front sides should not fall adhesive. If there is such, it has to be removed while it still fresh.

When using TERMOFLEX® PU CONTACT, the adhesive is applied as a line with sized 2 x 2 cm (thickness x width) along the periphery (about 2 cm from the edges) of the profile or detail and in their middle, in the form of the letter W. After applying the adhesive, wait for 1 minute before fixing the profile to the wall. After fixing it on the wall, the profile has to be pressed well to it.



Connecting the ends of the facade profiles and their bonding to one another is performed with the help of polyurethane adhesive **TERMOFLEX® PU CONTACT**. On the face of the profile is applied adhesive at distance of no less than 1 cm from the outer edges, after which the two profiles are pressed against each other. Between the two profiles is placed a joint with width at least 6 mm. The joint is filled completely with **TERMOFLEX® PU CONTACT**. When it dries completely, the excessive foam is cut from the joint with an upholstery knife in wedge with width 5 mm.

After 5-6 hours the cut wedge space in the joint is filled with **TEHNOCOAT® POLYMER COATING** the profiles are processed with. After the coating is dry, if it is necessary, the connecting places may be treated with sandpaper.

On every 6 m, between the profiles a deformation joint with width 1 cm must be placed, which will assume the linear extensions and prevent the cracking of the connections between them. After the installation of the profiles this joint can be filled with permanently elastic polyurethane adhesive-sealant **TERAFLEX® PU 50 FC**.

In order to prevent the penetration of water between the profiles and the facade grouting is performed with **TERAFLEX® PU 50 FC** over the entire length of the profiles. The adhesive-sealant is smoothed directly with finger and should not be interrupted nowhere.

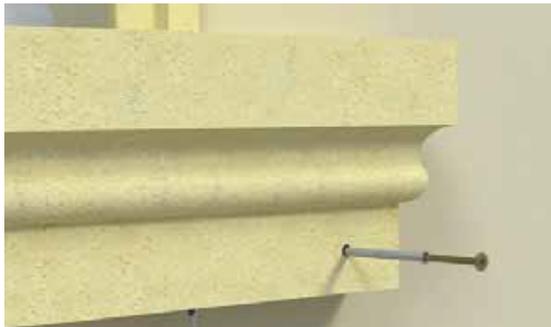
Mechanical fastening

There are cases when besides bonded to the base the profiles must also be additionally fastened mechanically to the base. This is necessary when:

- the profiles are coming out of the plane of the facade more than 7 cm (regardless of the base)
- the profiles are installed on lime, lime-cement and gypsum plasters (regardless of the profiles)
- the profiles serve as sills (regardless of the base and the size of the profile)

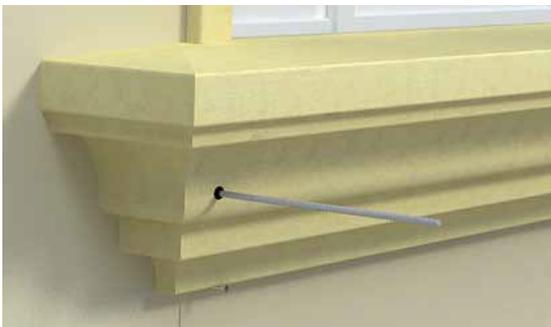
Towards the mechanical fastening is proceeded only after the drying of the (around 24 hours). It is done with the use of screws with dowels or pins (spits), with chemical dowels (when the maximum length of the dowels is not sufficient).

At profiles with length of 1 m, on every end is installed 1 dowel (pins) at a distance of 10 cm from the end of the profile. If the profiles are with length 2 m then besides installing dowels in the two ends, 1 dowel (pin) is installed in the middle of the profile. At other lengths of the profiles, the number of mechanical fixings must be adjusted proportionally.



Drilling the holes for the dowels is done through the profile. It has to enter at least 40 mm in the base at thick bases and 55 mm at bases with cavities. The remaining after the installation of the dowel hole is filled TEHNOCOAT® POLYMER COATING the profiles are processed with.

The profiles can be installed with the help of pins from galvanized stainless steel with diameter of 12 mm. For this purpose is drilled a hole with a diameter of 12 mm, which goes through the whole profile and enters in the base in depth of 100 mm. The hole in the profile (only in the profile!!!) is extended by drilling for a second time with drill with 8 mm bigger than the first (in this case 20 mm). The beginning of the entrance is extended one more time with the size (at least 25 mm) of the spit and nut that should be hidden on the profile.



The hole is cleaned (blown) from the remaining from the drilling and filled (only the hole in the base) with chemical dowel. The dowel is shortened to the required length (so that the end remains inside the profile without pointing out of it) and it is hammered with a hammer firmly into the base through a hole in the profile. The area around the dowel in the profile is filled with TERMOFLEX® PU CONTACT. The spit and nut are rolled carefully by hand. After 24 hours their final tightening is done.

The remaining after the installation hole is filled with TEHNOCOAT® POLYMER COATING the profiles are processed with.

The painting of the facade and decorative profiles has to be performed with plasto-elastic silicone paint for decorative architectural profiles and elements TERMOFLEX® SUPER ELASTIC. The application of the paint has to be done only after the complete drying of the adhesive and the joints between the profiles and to be repeated at least 2 times.

Facing the profiles with visors made of sheet metal or stone must be performed so that the bonding of the metal sheet or the stone is done to the base, and not to the profile itself.

Attention!

The decorative facade profiles are designed for optimal decoration and are not load-bearing!

The bonding of the profiles is done in dry weather at temperature of the base and the environment from +5°C to +30°C and air humidity below 65%!

The application of the adhesive should be carried out over the entire contact area – on the base as well as on the back of the profile. Avoid the formation of skin over the surface of the adhesive.

The time for complete hardening of the adhesive depends on the weather conditions (temperature and air humidity), but it is no less than 72 hours, as it can last up to 14 days!

It is permissible the use only for the described in this guideline materials from MARISAN company. When there are deviations from the recommendations, there is no warranty for the whole system.

The eventual small cracks that appear in the area where the profiles meet, do not affect the functionality and the security of the profiles. From them no warranty claims can be made.

When working with individual products it should be kept the described in their technical data sheet information.

Profiles, subjected to running water or salt (lye) for defrosting require special measures.

The profiles should not enter in contact with the soil and should be installed at least 1 cm above the ground. The down side of the profile and at least 5 cm from the visible surface of the profiles above the ground should be waterproofed over the entire area before their installation.

The information contained in the current document is based on our knowledge and recent technical achievements and experience that we have at the time of our last version. The technical recommendations concerning the application, which we offer in order to facilitate buyers and those working with our products are non-binding and are neither grounds for legal contract relations, nor for additional obligations resulting from the purchase contract. They do not dispense buyers from the necessity to verify products application according to the instructions for every specific use. We as manufacturers guarantee the quality of the product, but cannot influence the circumstances and methods of its use. Application of the product should be performed by qualified personnel.
