

# webertherm Reflect

FLEXIBLE WHITE  
ADHESION GLUE  
FOR ADHESION AND  
REINFORCEMENT OF  
STYROFOAM AND  
STONE WOOL

## *Area of application*

Used for adhesion and reinforcement of panels from Styrofoam (EPS, EPS graphite), Styrodur (XPS) and stone wool (MW) with webertherm reinforcement mesh. It is a part of the webertherm Reflect facade system enabling application of intensive colors of facade plaster and paints. The product webertherm Reflect is not a finishing layer.

webertherm Reflect is a prefabricated dry type of construction adhesive for thermal insulation based on white cement and fine fillers, polymer enriched, and with additives. It is characterized with extreme flexibility, solid fixation to the surface and excellent application features.

Product benefits:

- Part of the Reflect system
- For adhesion and reinforcement.
- Very flexible

Product classification:

CS IV Wc2 A2-s1,d0 (EN 998-1:2016)



## Base preparation

The base on which the product is applied on must be clean, solid, dry, supported and without parts falling off. Residue of old paint, plaster and substances that reduce adhesion (Oplatol oil, dust, salts and other impurities) should be fully removed. In case the base is exposed to moisture, it is necessary to repair the damage causing moisture first or install the insulation layer. Surfaces with deviation from vertical plane larger than 1.5 cm at floor height must be leveled with external cement plaster. Leveling of the surface with adhesive is not allowed - application of a layer that is too thick may lead to adhesive cracking and moving of thermal insulation panels, which may cause cracks on the surface of the facade system.

Concrete surfaces, cement and limestone-based plasters must be minimum 28 days old with moisture residue  $\leq 2\%$ , mechanically roughened and without dust residue. Strong absorbing surfaces (for example gas-concrete), old plasters and bricks, old mineral facades should be covered with deeply penetrating primer weberprim deep at least 6h prior to adhesion. New and clean surfaces from brick products (full brick, block) should not be treated with primer.

## Product use and installation

1. Pour 25 kg of adhesive into 7-7.25 l of pure water, mix with electric mixer to the bottom of the bucket, until the material becomes homogenous. After mixing, leave webertherm Reflect for 5-10 minutes and mix once more, and then use it within 1 hour maximum.
2. Set the initial skirting board prior to adhesion of insulation panels, in order to form a direction. After this, start gluing with webertherm reflect adhesive.
3. Prior to application of the adhesive on the panels of stone wool it is necessary to perform thin skimming of the parts of the panel to which the glue will be applied or the entire surface with webertherm Reflect for impregnation. Apply the adhesion on the back side of the insulation panel - in strips to the edges of the panel and in dots in the middle. For Styrofoam adhesion, also apply strip-dot method of adhesive application. Coverage of the panel with webertherm Reflect adhesive must be at least 40% of the total surface, to achieve sound adhesion. For Styrofoam adhesion, also apply strip-dot method of adhesive application. Thermal insulation panels should be glued together using the shearing method, by drawing the next row of panels by 30 cm minimum, in order to avoid overlapping of vertical joints. On the corners of the building apply the method of alternate overlapping (jagged joint rule - cross-adhesion of thermal insulation panels). When gluing thermal insulation panels around facade openings, make sure not to match the lines of the opening with the lines of panel joints. Clearance between the insulation panels should be filled with thermal insulation material, not the adhesive, in order to prevent the occurrence of thermal bridges.
4. Anchoring and cutting the surplus of panels in corners should be started 48h after adhesion at the earliest. Minimum number of anchors is 5 pcs/m<sup>2</sup> for Styrofoam, while the minimum quantity is 6 pcs/m<sup>2</sup> for stone wool and anchors must include iron nails. Anchoring of anchors to the surface should be done directly through the adhesive. Anchoring is mandatory from elevation  $\pm 0.00$ , and the accurate number is determined based on required parameters.
5. Prior to the reinforcement of the entire surface, perform corner reinforcements around all openings on the facade, by pressing the facade mesh with minimum dimensions 30 x 50 cm into the fresh applied webertherm Reflect. Afterwards, set required skirting for edge strengthening (PVC corner skirting, contact skirting, end profiles, etc.). Reinforcement should be performed by applying adhesive with jagged stainless-steel trowel with minimum teeth depth of 8 mm. Softly press the

webertherm reinforcement mesh into the freshly applied adhesive, making sure that the overlaps of the mesh are at least 10 cm long. Double reinforcement should be performed in the webertherm Reflect facade system. The period between the first and the second reinforcement, as well as between the reinforcement and the finishing layer must be at least 24h. Minimum total depth per reinforcement layer must be at least 3 mm. This procedure prevents the occurrence of cracks on the facade surface, that may be caused by overheating of intense colors, and also, mechanical strain.

6. Application of facade primer should be performed after webertherm Reflect is completely dry or, at the earliest, in 48h from the application of the final layer of the adhesive.

\* All stated parameters refer to standard weather conditions: temperature 20°C, relative humidity up to 65%.

7. Surface and air temperature during application and drying of the adhesive webertherm Reflect must be in line with standard weather conditions. If the weather conditions are not in line with standard it is necessary to adjust the work process to the given circumstances and expect the product will bond quicker in warmer weather, that is, slower in the cold, making sure the temperature of the surface and air is not under 5°C and above 30°C. During application and drying protect the material from elements such as exposure to wind, sun and rain.

The manufacturer recommends application on small, test surfaces to make sure the product/surface are properly prepared and that appropriate conditions for use and installation have been provided. If not, please stop the work and contact the Saint-Gobain građevinski proizvođači d.o.o. Beograd company representative.

The company shall not be responsible for incorrect execution of works with the stated material as well as use of material for the purpose not stated in product description. Complaints submitted after execution of works shall not be accepted.

## Tools

For mixing: electric mixer or manually.  
For application: jagged steel trowel, spatula.

## Product consumption

For adhesion of the thermal insulation Styrofoam panel: approximately 4-6 kg/m<sup>2</sup>, depending on the adhesive layer thickness, conditions during application and surface on which the thermal insulation panels are set. For reinforcement mesh placement: approximately 6 kg/m<sup>2</sup>, depending on adhesive layer thickness and conditions during application.

For adhesion of the thermal insulation stone wool panel: approximately 7-8 kg/m<sup>2</sup>, depending on the adhesive layer thickness, conditions during application and surface on which the thermal insulation panels are set. For reinforcement mesh placement: approximately 8 kg/m<sup>2</sup>, depending on adhesive layer thickness and conditions during application.

## Keeping, storage and transport

Product webertherm Reflect must be stored in original, undamaged packaging, on solid and functional pallets, in dry space, without direct exposure to snow, rain, hail and sun, protected from frost, in closed or covered space.

The product is not hazardous for transport in the sense of all national and international transport regulations. During transport, the product must be protected from the elements. Transport and store the product at temperature from +5°C to +30°C.

### Product safety

Hazardous compound ingredients: Portland cement, white, 20-50%.



**Danger**

May lead to severe eye damage. Causes skin irritation. May cause allergic skin reactions. May cause respiratory organs irritation. Wear protective gloves, protective clothes, protective goggles and face protection. IN CASE OF EYE CONTACT: Carefully rinse with water for a few minutes. Remove contact lenses, if any, and if possible. Continue rinsing. Immediately call the POISONING CONTROL CENTER or contact a physician. IN CASE OF SKIN CONTACT: Rinse with plenty of water and soap. IN CASE IT IS INHALED: Take the person to fresh air and put it in a position that facilitates breathing. Disposal of content and packaging in line with regulations in RS. Content of soluble chrome Cr (VI) in the product is less than 0.0002% calculated at total mass of dry cement.

### Technical characteristics of the product

Product color: webertherm Reflect is a white adhesive.

Packaging: natron bag 25 kg, 1200 kg on the pallet.

Expiration date: 12 months from the production date pressed on the packaging.

Detailed information on product, additional documentation and safety data sheet are available on the official webpage [www.rs.weber](http://www.rs.weber).

### Cleaning

Residue of fresh product can be cleaned from the tools and surfaces with water. Hardened product must be removed only mechanically.

### Product limitations

Thermal insulation adhesive webertherm prestige cannot be used in the following situations:

- With wooden and metal surfaces
- With old and insufficiently supported surfaces
- At temperatures for storage, transport, application and drying lower than +5°C and higher than +30°C,
- As finishing layer within facade systems
- With surfaces containing impurities and moisture

## Environment

Unused product and empty packaging may not be disposed outside of waste management locations. See safety data sheet of the product for more information.

## Disposal method

Disposal of content and packaging in line with local regulations. Dispose the packaging and unused material separately. Do not allow penetration into the sewerage system. Do not dispose together with municipal waste.

## Country of origin and product manufacturer

Country of origin: Republic of Serbia.

Manufacturer: Saint-Gobain građevinski proizvodi  
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Technical information stated herein as well as recommendations are based on our knowledge and experience in cases when the product is properly stored, used, transported and when handled in regular conditions. The buyer, or the user of the product is advised to test the product, if it is suitable for use for intended purpose. Considering the fact, we do not have influence on the circumstances of product use and handling, we shall not be liable for consequences occurring from irregular use. The buyer, or the user of the product shall be liable in case the product is kept, transported, installed and used contrary to instructions, purpose and properties and information on product safety, as well as after stated expiration date for product use. Our team of experienced experts provides advice in phases of planning and application of our products. Visit to the construction site and demonstration of application of our products may be organized at request. Contact our technical team and find out more on our products on the website [www.saint-gobain.rs](http://www.saint-gobain.rs).