

webertherm univerzal

UNIVERSAL ADHESIVE
GLUE FOR STYROFOAM
ADHESION AND
REINFORCEMENT

webertherm univerzal is a prefabricated dry type of construction adhesive for thermal insulation based on cement and fine-quality filler of fine granulation, polymer enriched.

Product benefits:

- Simple to use.
- For adhesion and reinforcement.
- Fine structures.

Product classification:

CS III Wc1 A1 (EN 998-1:2016)

Area of application

Intended for adhesion of thermal insulation panels made from Styrofoam (EPS) and Styrodur (XPS), reinforcement with webertherm reinforcement mesh and final leveling. The product webertherm univerzal is not a finishing layer.



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 (Oplamol 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, reduction of adhesion, that may cause cracks on the facade surface and detachment of insulation panels.

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 of EPS or XPS. 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 6.25 l of pure water, mix with electric mixer to the bottom of the bucket, until the material becomes homogenous. After mixing, leave webertherm univerzal 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 univerzal adhesive.
3. During the gluing process, apply the glue to the back side of the insulation panel - in strips to the edges of the panel and in the middle.

Coverage of the panel with webertherm univerzal adhesive must be at least 40% of the total surface, to achieve sound adhesion. 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/m². Anchoring of anchors to the surface should be done directly through the adhesive. Anchoring is mandatory from elevation ± 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 univerzal, in such a way that windows of the mesh are set under the angle of 45° related to opening edges. 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. After at least 24 hours, start the final leveling of the surface with the adhesive.

Minimum total depth of the adhesive should be 4 mm minimum (recommended 5 mm), and the mesh should be positioned in such a way that 2/3 of the total adhesive thickness should be between the mesh and the insulation panel.

6. Application of facade primer should be performed after webertherm univerzal is completely dry - 48h from the application of the second layer of the adhesive.

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

6. During installation and drying, material should be protected from the Sun, wind and rain for at least 48h, after which the material shall be resistant to atmospheric impact. Recommended protection method includes setting scaffold screens, but it may be insufficient in case stated impact is of strong intensity. Temperature of the surface and air during the application of facade plaster must be between 5°C and 30°C. If case weather conditions do not match the requirements; it is necessary to stop the work and wait for the optimum conditions.

The manufacturer recommends application on small, test surfaces to make sure the product/surfaces are properly prepared and whether 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 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 5-7 kg/m², depending on the adhesive layer thickness, conditions during application and surface on which the thermal insulation panels are set. For reinforcement mesh placement: approximately 4-5 kg/m², depending on adhesive layer thickness and conditions during application.

Keeping, storage and transport

Product webertherm univerzal 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, gray, 20-50%.



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 univerzal is a gray 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.

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 special cannot be used in the following situations:

- With wooden and metal surfaces
- With 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.

Način odlaganja

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 manufacturer

Country of origin: Republic of Serbia.

Manufacturer: Saint-Gobain građevinski proizvodi d.o.o. Beograd, 115d Bulevar Mihajla Pupina Street, 5th floor, 11070 Novi Beograd, Republic of Serbia. Contact telephone: 011/3149681.



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.