

webertherm stone light

EXTREMELY FLEXIBLE
WHITE ADHESIVE
WITH LIGHT FILLERS
FOR ADHESION AND
REINFORCEMENT OF
STYROFOAM AND
STONE WOOL

Area of application

Used for adhesion and reinforcement of panels from Styrofoam (EPS), Styrodur (XPS) and stone wool (MW). The product webertherm stone light is not a finishing layer.

webertherm stone light is a prefabricated dry type of construction adhesive for thermal insulation based on soft fillers, white cement and additives, polymer enriched, easy to apply and process. Very flexible solution, solid connection to the surface and suitable for facade systems loaded with natural or artificial stone, Klinker panels etc. Owing to lighter fillers it can be applied in thicker layer and may reduce consumption up to 30%.

Product benefits:

- Increased resistance to mechanical damage
- Suitable for thicker application
- Increased load

Product classification:

CS III Wc1 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 (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. New and clean surfaces from brick products (full brick, block) should not be treated with primer.

Product use and installation

1. Pour 17 kg of adhesive into 6 l of pure water, mix with electric mixer to the bottom of the bucket, until the material becomes homogenous. After mixing, leave webertherm stone light for 5-10 minutes and mix once more, and then use it within 1 hour maximum. Mixing with water results in identical amount of mass as with adhesives of 25 kg.
2. Set the initial skirting board prior to adhesion of insulation panels, in order to form a direction. After this, start gluing with webertherm stone light adhesive.
3. Prior to application of the adhesive to stone wool panels it is necessary to perform skimming of parts of the panel on which

adhesive is applied or the entire surface with webertherm stone light for impregnation. Apply the glue to 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 stone light 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. 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 prestige, 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 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 with single layer reinforcement should be 4 mm minimum (recommended 5-7 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. Double reinforcement should be performed in the webertherm stone light facade system. The period between the first and 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 5 mm. This reinforcement procedure achieves the improved bearing capacity of the facade covering (stone, Klinker panels, etc.).

5. Anchoring and cutting the surplus of panels in corners should be started 48h after adhesion at the earliest. Minimum number of anchors with single-layer reinforcement is 5 pcs/m² for Styrofoam, while the minimum quantity is 6 pcs/m² for stone wool and anchors must include iron nails. For facade covering with increased weight (stone, Klinker panels, etc.) double anchoring is performed 24h after each layer of reinforcing at the earliest. It is important to distribute the anchors so that they are moved at half a distance in vertical and horizontal direction to avoid matching, with the minimum number of anchors per layer of 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 received from calculation based on required parameters.
6. Application of facade primer should be performed after webertherm stone light 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. 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 or machines.

Product consumption

For adhesion of the thermal insulation Styrofoam panel: approximately 3,5-5,0 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 3,0-4,0 kg/m², depending on adhesive layer thickness and conditions during application.

For adhesion of the thermal insulation stone wool panel: approximately 5,0-7,0 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 3,5-5,0 kg/m², depending on adhesive layer thickness and conditions during application.

Keeping, storage and transport

Product webertherm stone light 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 stone light is a white adhesive.

Packaging: natron bag 17 kg, 816 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.

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.

ZCountry of origin and product 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.
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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.