

## TU-300

**white adhesive for execution of a reinforcement layer with a mesh and fixing mineral wool and eps boards in thermal building insulation without using primer**

### PROPERTIES

- very good adhesion to the ground
- very good water vapor permeability
- easy to use
- high flexibility
- high crack resistance
- contains fibers
- strengthen with polymers
- weatherproof

### APPLICATION

The adhesive **TU-300** is used to make the base coat with a mesh, and to stick ineral wool and EPS white and grey boards within the system of external walls of buildings (SEMPRE TERM ST, SEMPRE TERM ST RENOWATOR) using light-wet method. It is suitable for both newly constructed buildings as well as undergoing renovation. If the technical project requires, glued with the mortar EPS and mineral wool boards should be fixed also with a mechanical fasteners such as dowel pins from plastic. After binding, it remains flexible. It exhibits high impact resistance. It contains fibers. Before applying coat plaster on a binded surface of Universal Adhesive, using primer is not necessary.

### TECHNICAL DATA

<b>Group of products</b>	Façade products			
<b>Contains</b>	Cement, lime, trails, mineral fillers, finishing additives			
<b>Colors</b>	white			
<b>Consumption</b>	ca. 4kg /m <sup>2</sup> *			
Parameters	Parameter	Norm	Value	Unit
	Compressive strength		1,5 – 5,0	MPa
	Water vapour permeability coefficient $\mu$	EN 998-1: 2016, IDT	< 25	----
	Capillary water absorption		W0	[kg/ m <sup>2</sup> min <sup>0,5</sup> ]
	Thermal conductivity mean, $\lambda_{dry}$ (tabular value EN-1745)	EN 1745: 2002	$\leq 0,45$ (P=50%) $\leq 0,49$ (P=90%)	W / m K
	Reaction to fire (class)	EN 13501-1	A 1	----
	The required layer thickness	-	2 – 5	mm

The parameters given are mean of the results obtained during the tests. Due to the use of raw materials, actual values may slightly differ from those in the table.

\* Consumption depends on the substrate and application technique. The given value is approximate.

**USE INSTRUCTION**

<b>Substrates</b>	<p><u>1. Application of the original thermal insulation system</u> The surface should be stable, firm, dry and cleaned of dust, dirt, grease. Weakly bound plaster should be removed. Holes and surface irregularities should be corrected, paint coatings with low adhesion to the substrate must be completely removed, for example, with water under pressure. Places that are home to mosses and algae should be cleaned, and then primed with fungicide ALGHESIL. Substrates with high water absorption, such as the walls of autoclaved aerated concrete blocks or sand-lime bricks should be primed ETERNA GRUNT F.</p>
<b>Product preparation</b>	<p><u>2. Applying a thermal system to an existing system</u> In the case of applying a new thermal insulation system to the already existing renovation works, it is necessary to begin by assessing the technical condition of the substrate. For detailed information on how to proceed, please refer to the Instruction for thermal insulation system for existing insulation using SEMPRE TERM ST RENOWATOR (see www.semprefarby.pl).</p> <p>To the measured amount of cold water in an amount of 5.5 liters, pour the contents Universal Adhesive, and then mix using a drill with a mixer, until a mass will be homogeneous without lumps. Working mortar proper consistency is obtained after re-mixing after 5 to 10 minute interval. Do not treat hardened mortar with water or mix it with fresh mortar.</p>
<b>Application</b>	<p><u>Attaching EPS boards:</u> Ready adhesive put on EPS by a trowel around the perimeter of boards with a width band 3 to 4 cm and in a few spots with a diameter of about 8 cm. Immediately put the EPS board into the wall and press it down with impacts of long float. Properly applied mortar, when pressed, covers at least 40% of its surface. If even of smooth surfaces, the mortar can be applied to a EPS using a notched trowel (teeth 10-12 mm). EPS boards should be fastened tightly to each other, in the same plane, while maintaining passing in the vertical pin. After the mortar used to attach boards bond (about 3 days), boards must be sanded and proceed to the necessary, additional mechanical mounting switches. Number of switches should be at least 4 per m<sup>2</sup>.</p> <p><u>Attaching mineral wool boards:</u> Before fixing the mineral wool spread a thin layer of the ready material on the perimeter of boards and in a few spots with a diameter of about 8 cm. In the same places apply material with a width of 3 to 4 cm. Immediately put the mineral wool board into the wall and press it down with impacts of long float. Properly applied mortar, when pressed, covers at least 40% of its surface. In case boards of lamela mineral wood, apply thin layer on the whole surface of the material. The second layer of the ready adhesive can be applied using a notched trowel (teeth 10-12 mm). Boards should be fastened tightly to each other, in the same plane, while maintaining passing in the vertical pin. After the mortar used to attach boards bond (about 3 days) fasten the boards with mechanical fasteners in accordance with thermal insulation draft.</p>
<b>Drying</b>	<p><u>Performing mesh reinforcement layer:</u> For that prepared substrate spread mortar to a depth of 2-3 mm with a smooth, steel trowel. A fiber glass mesh should be applied on the fresh mortar preserving 10 cm overlap. Then apply a second layer of mortar with a thickness of about 1 mm and smooth surface, so that the mesh is not visible and it is in the middle of the thickness of the reinforcing layer. Application temperature: 5 to 25 ° C (air and substrate). Avoid working on sunny surfaces, rain and strong wind.</p> <p>At 20 ° C and a relative air humidity of 55% the drying time of the coating is approx. 24 hours. Low temperatures and increased humidity extend the drying time, even a few days.</p>
<b>Cleaning tools</b>	<p>Water – directly after use.</p>

**PACKAGE**

25 kg

**STORAGE**

12 month from date of manufacture located on the side of package. Store in original container in a cool room, protected from moisture. Before using please read the information in the recent issue of the product.

**SAFETY AND HYGIENE AT WORK/ FIRE PROTECTION**

Keep out of reach of children. Avoid breathing dust. Wear protective gloves / protective clothing / eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention

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**SEMPRE FARBY Sp. z o.o.**

43-301 Bielsko-Biała, ul. Gen. J. Kustronia 60  
Tel. 33 496 06 09, Fax 33 496 06 10

NIP 547-19-95-321 REGON 072893690 KAPITAŁ 1.170.000,00 PLN  
Sąd Rejonowy w Bielsku-Białej VIII Wydział Gospodarczy KRS 0000190876

e-mail: info@semprefarby.pl  
www.semprefarby.pl

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e-mail: [info@semprefarby.pl](mailto:info@semprefarby.pl)  
[www.semprefarby.pl](http://www.semprefarby.pl)