

## EPS-FIX

Adhesive for **EPS insulation boards**

### CHARACTERISTICS

EPS-FIX is polymer-cement adhesive for **bonding insulation boards** made of **polystyrene** (EPS). It is used **also** as one of components in thermal insulation system (ETICS). Its characteristic is good **adhesion** both to **polystyrene** and different wall **substrates**. It is used **as adhesive for polystyrene to the following substrates**: brick, concrete, aerated concrete, cement and cement-lime mortars.

### COMPOSITION

Mineral fillers, cement, polymer **binder**, additives.

### TECHNICAL CHARACTERISTICS

Parameter	Value
<b>Bulk density</b> (EN 1097-3)	≈1325 kg/m <sup>3</sup>
<b>Compressive strength after 28 days</b> (EN 1015-11)	Class CS IV (≥6 N/mm <sup>2</sup> )
<b>Flexural strength after 28 days</b> (EN 1015-11)	≈3.4 N/mm <sup>2</sup>
<b>Adhesion strength on substrate (concrete surface)</b> (EN 1015-12)	≥ 250 kPa
<b>Adhesion strength of the adhesive on EPS board:</b>	
- after 28 days normal conditions (EN 13494)	≥ 80 kPa
- after 3 <b>cycles of conditioning</b> (EN 1062-11)	
<b>Capillary water absorption by capillarity, c</b> (EN 1015-18)	W2 (≤ 0,2 kg/m <sup>2</sup> · min <sup>0,5</sup> )
<b>Dry extract content at 105°C</b> (ETAG 004)	99.87/0.13 %
<b>Ash content at 450°C</b> (ETAG 004)	98.19/1.81 %
<b>Water vapour diffusion resistance factor, μ</b> (EN 1745)	51/20
<b>Thermal conductivity coefficient, λ<sub>10°C, dry</sub></b> (EN 1745)	0.55 W/m · K

### SUBSTRATE PRAPARATION

**Substrate** has to be hard, dry, free of dust, grease and other impurities. Soft surfaces should be removed. The following are appropriate **substrates**: surfaces made of cement, cement-lime, gypsum-lime mortars, treated with smoothing compounds, untreated concretes. Bigger uneven surfaces on the wall should be patched with appropriate mortar and not with thicker layer of adhesive (causes cracking and movement of thermal insulation **boards** and cracks of the final layer of thermal insulation system.)

Smooth concrete surfaces **need** to be impregnated by product PODLOGA KVARC.

**Key coat** also is binding connection between **substrate** and used material in order to create stronger connection and decrease its **consumption**.





## APPLICATION

Use approx. 5.2 l of water and add bag of 25 kg of EPS-FIX. Use slow speed mixer and mix it until homogenous compound is formed. Leave material **as such rest for** about 5 minutes and mix it again. **Compound workable for 2-3 hours**. Before **bonding**, set starting aluminum board, on which a certain amount of adhesive is applied, in order to seal on the bottom side. Afterwards, the first line of thermal insulation **boards** is laid.

**Adhesive** should be applied on edges approx. 5 cm wide and in the middle in 3 stripes or 4-6 **dots**. Surface of applied **adhesive** should not be under 40% once the **board** is pressed against the **substrate**. **Board** prepared in this way is ten fixed to the wall. Thermal insulation **boards** are bound next to each other tight enough so the adhesive does not get to contact surface between **boards**. Boards of adjacent lines are set according to rule for brick connecting (with minimal distance of 30 cm to the new line). Evenness of thermal insulation **boards** is controlled by lath of appropriate length.

Before setting the anchors, polystyrene should be drilled by appropriate tool at all places defined for anchors. Afterwards, anchors (4-5 pcs/m<sup>2</sup>) are set at knots and at the middle of **polystyrene**, and, after this, EPS **corks are** set to these places. In this way, before setting reinforcing mesh, we get completely even surface. This procedure disables occurrence of bumps at the places where anchors are set. Hence, slurs occurrence is prevented due to uneven water absorption and drainage. Connections between **boards** wider than 2 mm should be filled by thermal insulation material, which is set in the way that stripes of appropriate width are cut, they are pressed into these places, or by low-expansion PUR foam.

The following products are recommended for mounting reinforcement mesh and superficial procession of Styrofoam: STIROFIX, UNIFIX, STIROFIX BIJELI, STIROFIX PLUS.

Optimum air and wall temperature for work and drying is from +5°C to +25°C.

Avoid working in direct **sunlight**, wind and rain. Use protective **curtains** during **application**.

Wash tools with water **immediately after use**.

## CONSUMPTION

≈ 4.5 – 5.5 kg/m<sup>2</sup>

## PACKAGE

Paper bag 25 kg

## LIFETIME

12 months in original, well-sealed and undamaged package.

## WASTE TREATMENT

Pursuant to the Law on waste management ("Official Gazette of the Republic of Srpska", number 111/13 and 106/15), Rulebook on waste categories, tests and classification ("Official Gazette of the Republic of Srpska", no. 19/15), Styrofoam adhesive is classified as waste with the following classification number

17 09 04 (mixed waste from construction and demolition other than those listed in 17 09 01, 17 09 02 and 17 09 03). Contaminated waste should be delivered to waste management authority.





## LABELLING

Pursuant to Regulation (EC) No. 1272/2008 classification, labeling and packaging of substances and mixtures, product is classified as hazardous.



Hazard class and hazard category:

- Skin irrit. 2
- Skin sens. 1
- Eye dam. 1
- STOT SE 3

Signal word: Danger

Product identifiers:

Compound contains: Portland cement clinker (CAS number: 65997-15-1).

Hazard statements:

H315 – Causes skin irritation.  
 H317 – May cause an allergic skin reaction.  
 H318 – Causes serious eye damage.  
 H335 – May cause respiratory irritation.

Precautionary statements:

P102 – Keep out of reach of children  
 P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 – IF ON SKIN: Wash with plenty of soap and water.  
 P304+P340 – IF INHALED: Remove **victim** to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 – Immediately call a POISON CENTER or doctor/physician.  
 P333-P313 – If skin irritation or rash occurs: Get medical advice/attention  
 P501 – Disposal of contents /container in accordance with local/ national/regional/international regulations.

## STORAGE

Store it in dry and ventilated rooms in original package.  
 Protect from contact with humidity.





## QUALITY CONTROL

Parameters of the product quality are defined pursuant to internal product specifications. Achieving declared values is ensured by integrated system of quality management ISO 9001. Verification of declared and limit values are achieved through tests in certified laboratories. Significant importance is paid to protection of environment through integrated system of quality of environmental management ISO 14001.

## OTHER INFORMATION

In case application or esthetic lacks are noticed in installation, contractor is to stop the works immediately and duly inform the producer, who, hence, shall deal with complaint.

If a larger part of whole of amount of material is applied, complaint is not possible.

It is understood that contractor is aware of product characteristics and the way of its **application**.

Company Colorit doo shall not assume the damage caused due to contractor's unprofessionalism, wrong application or wrong choice of product for given purpose.

Technical data sheet is meant for guideline in order to achieve the best results in **application** only.

Read **safety data sheet** before use of product.

