COLORLAK

E4009
VAZAFIX 2v1
Adhesive and reinforcing cement mixture

Colour shades: Non-standardised grey.

Use: The VAZAFIX E4009 dry adhesive and reinforcing cement material is a high-quality frost-resistant and reinforcing material intended for applying a reinforcing layer on (EPS and XPS) insulating materials and glueing the insulations to the substrate during thermal insulation of peripheral shells in a contact manner. The substrate can be plasters, masonry (from solid and hollow bricks), concrete, aerated concrete and gas silicate.
The substrate must be dry, mature, cohesive, free from dust and impurities and water-insulated. If the substrate is a plaster, remove incoherent layers and repair unevenness above 5 mm per 2 m with a suitable mortar. In advance apply the EKOPEN sealing coat on the substrate.
Before the application, prepare the adhesive mixture by mixing the powder mixture with water in the ratio of 1 part of water to 4 parts of powder mixture (pour 1 bag of adhesive into 6.0 to 6.5 l of water), stir the mixture with a slow-running mixer or a strong low-speed drill (the speed must not exceed 500 rpm). Let the resulting pasty mixture of homogeneous consistency stand for 5 minutes at least and then stir again briefly, adjusting the consistency as needed. The processibility of the prepared mixture is about 2 hours depending on the air temperature. No other additives may be added to the mixture. Use drinking water as mixing water or the water must comply with the requirements of CSN EN 1008. Never use water from unknown sources or water containing flower-forming salts.
When glueing the insulation "to the frame and targets", the unevenness must be less than 2 cm per 1 meter of length. Apply the EKOPEN E0601 or PENETRACE S2802A E0607 sealing coat on the substrate for gluing the insulation. Very moisture-absorbent substrates must be treated twice with EKOPEN solution diluted 1:1 with water. Boards of the thermal insulating material must be anchored carefully aligned; any unevennesses can be locally adjusted in rare cases by regrinding. Pre-roughen the extruded polystyrene (XPS) boards.
When reinforcing, apply a layer of VAZAFIX 2v1 E4009 and impress the reinforcing fabric into it with a trowel. The knifing filler that has penetrated meshes of the net may be replenished and smoothed if necessary. The thickness of the bottom layer must be at least 3–4 mm. Make the required thickness by applying another layer of levelling compound on the levelled, uncured and non-dry original layer of the levelling compound. After drying, sand VAZAFIX 2v1 flat. If a break between the installation of EPS boards and the application of the primer is longer than 14 days, it is necessary to remove the degraded surface layer by regrinding and subsequently remove grinding dust from the surface. Follow the Binding technological procedure for thermal insulation systems.
The recommended application temperature (environment, substrate, material) is +5 °C to +25 °C. Avoid applying VAZAFIX in direct sunlight, at high substrate temperature or in rainy and strong windy conditions. Higher relative humidity and low temperatures may have an important effect on the time of drying. The drying time is about 4–6 hours depending on the temperature and humidity of the air and substrate.
Used tools and stained places must be immediately washed with water as the dried paint is very difficult to remove.

Application: With a stainless steel trowel.
Thinner: Water.
Thinning: 1 part water to 4 parts powder mixture.

Properties and technical parameters:

Bulk weight:	1.20–1.40 g/cm^3
Drying / depending on temperature:	4–6 hours

Property	Value	Tested in accordance with
Reaction to fire	E	CSN EN 12004+A1
Adhesion to concrete – Initial status [MPa]	≥ 0.5	CSN 73 2577

Adhesion to concrete after frost resistance test [MPa]		≥ 0.5	CSN EN 1015-12 ETAG 004, Art. 5.1.4.1.2
Adhesion to concrete after resistance test to sudden temperature changes [MPa]		≥ 0.3	
Adhesion to concrete – 48 h storage in water + 2 h drying at (23±2) °C and (50± 5)% relative humidity [MPa] after frost resistance test [MPa]		≥ 0.08	CSN 73 2577 CSN EN 1015-12 ETAG 004, Art. 5.1.4.1.2
Adhesion to concrete – 7 h 23 °C, 95% humidity + 7 days drying at (23±2) °C and (50± 5)% relative humidity [MPa]		≥ 0.25	
Absorbency after 1 hour [kg/m^2]		< 1	ETAG 004, Art. 5.1.3.1
Absorbency after 24 hours [kg/m^2]		< 0.5	
Frost resistance [cycle]		> 15	CSN 73 2579
Resistance to sudden temperature changes [cycle]		> 15	CSN 73 2581
Adhesion to insulating material – Initial status [MPa]		≥ 0.08	ETAG 004, Art. 5.1.4.1.1
Adhesion to insulating material after resistance test to sudden temperature changes [MPa]		≥ 0.08	
Content of natural radionuclides	mass activity a_{Ra226} [Bq/kg]	15 ± 2	
	mass activity index "I" [Bq/kg]	0.14 ± 0.05	
Water vapour permeability – equivalent diffusion thickness s_D [m]		≤ 0.14	CSN EN ISO 7783
Thermal conductivity coefficient λ [W/mK]		0.369	CSN EN 12664

Consumption: 3–4 kg/m^2 when reinforcing polystyrene boards
4–5 kg/m^2 when reinforcing mineral wool boards

Packaging: Paper bags á 25 kg.

Shelf life: In dry and covered storage areas without the need for tempering, on pallets.

Disposal: Containers/unused product should be handed over to a person authorised for disposal of wastes or to a hazardous waste collection point established by the local authorities.

Classification

Signal word: **Danger**

Hazard statements:	**Hazards identification**	
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H335	May cause respiratory irritation.

For details, see the Safety Data Sheet of this product.

"The user is responsible for correct use of the decorative plaster or for the composition and correct application of the whole system, i.e. the user must always consider all circumstances – conditions of application and processing that could affect the final quality of surface treatment.
A complaint relating to colour shades and plaster structure can be acknowledged only under the condition of a previously prepared test coating on a small surface in accordance with the mandatory technological process, which accompanies the complaint. No claims filed after using up the product will be taken into consideration. COLORLAK, a.s. reserves the right to change data in technical and advertising materials without any prior notice."

"Technical recommendations contained in this Catalogue Sheet are given based on our experience and best knowledge of the state of the art in science and practice; they are not binding and they do not constitute any obligations unless expressly defined in the purchase contract."

Marketing, 4/2020