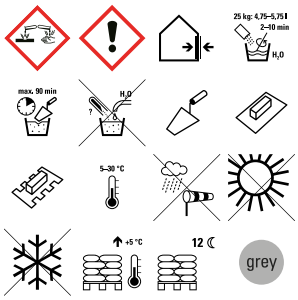
Technological instruction No. 08-001
ALFAFIX® S1

Catalogue No.: 632000

ALFAFIX® S1 is dry adhesive and levelling substance material.

ČSN EN ISO 14001 ČSN EN ISO 9001



CHARACTERISTICS

Application

It is used for forming of flexible base layer of the external thermal insulation composite systems of STX.THERM® line, for adhesion of insulation board materials (with exception of designed purpose it can also be used for adhesion of ceiling tiles, parget profiles onto common bases in interior and exterior and for forming of flexible base layer of render systems).

Characteristics

The material is characterised by increased adhesion to selected types of attached materials. The hardened material ensures frostproof adhesion and in combination with glass mesh forms closely flexible seamless layer.

TECHNICAL DATA

Criterion	Standard/test regulation	Value/Unit	Notes
Mortar class	EN ISO 2811	CS III	
Apparent density of cured mortar	EN 1015-10	1.3 - 1.4 g/cm^3	
Flexural strength (28 days)	EN 1015-11	3.0 N/mm^2	
Compressive strength	EN 1015-10	6.0 N/mm^2	
Modulus of elasticity dynamic (28 days)	TP BE-PCC	6000 N/mm^2	
Resistance to water vapour diffusion		≤ 25	
Water absorption	ETAG 004	< 0.5 kg/m^2	
Water absorption (class)	EN 998-1	W2	
Thermal conductivity	EN 1745	≤ 0.39 W/(m.K)	Table value for P=50 %
Thermal conductivity	EN 1745	≤ 0.43 W/(m.K	Table value for P=90 %
Fire behaviour (class)	EN 13501-1	F	Not measured
Fire reaction in the system	EN 13501-1	A2-s1,d0	when built-in into selected ETICS from the STX.THERM® range

The specified characteristic parameters are average values. Due to the use of natural raw materials in our products, the specified values may insignificantly differ in individual deliveries. This, however, does not compromise suitability and reliability of our products.

SUBSTRATE

Requirements

It can be attached to common bases (consistent fixed render, concrete, gas silicate, foam concrete, burnt building materials). The adhesion is not possible to lime or glue paints. Such instable layers must removed before application by regrating or grinding.

Preparation of the material

Absorbent bases are impregnated by penetration solution. A double penetration must be done with highly absorbent bases or bases repaired by previous regrating of lime or glue paints. For base impregnation the penetration coatings NL or EH are used, eventually

STOMIX, spol. s r. o., 790 65 Skorošice 197, **tel.:** +420 584 484 111, **fax:** +420 584 484 112, **e-mail:** info@stomix.cz, IC: 48400874
The company is registered in the Commercial Register at the Regional Court in Ostrava, part C, Insert 10601.

	painting by the HC-4 primer. At surface treatment of insulation board materials for application of seamless base layer under final render the levelling of bases by regrinding is made. Lightweight not absorbent bases – EPS, reground polyurethane or expanded polystyrene need not be impregnated.
APPLICATION	
Climatic conditions during application	Range of working temperatures is from +5 °C to +30 °C, while the temperature of the base, attached material and adhesive cement must also be within the said range. It is not recommended to realise the works under rain nor under higher temperatures on directly sunlit surfaces. In such a case the directly sunlit surfaces should be suitably shaded. The applied material must be suitably protected against frost and rain until complete drying.
Workability period	90 minutes at +20 °C
Mixing ratio	100 weight parts of dry ALFAFIX® S1 material into 19 to 23 weight parts of water according to the required consistency.
Preparation of the material	The material is prepared by mixing of 100 weight parts of dry ALFAFIX® S1 material into 19 to 23 weight parts of water according to the required consistency by means of mixing stirrer. It is mixed under low revolutions 2 to 10 minutes according to the stirrer type and after 10 minutes of maturing and short mixing the material is prepared for use. Adding of other mixing water or additives is prohibited.
Consumption	(kg/m2) ALFAFIX® S1, bonding of insulation materials: 2,7–5,0; application by glass−netting: 3,2–4,0
Spreading capacity	6.5 m^2 / bag (25 kg), depending on the use, use of bonding and flatness of the base
Application	Spreading of adhesive and backfilling materials is done by means of tooth applicator with teeth height of 3 to 10 mm onto the prepared base. Spreading of the material over insulation board materials is done in points over the board circuit in order the flatness and stiffness of the facing insulation side are ensured. Application of seamless backfilling is done by a stainless smoother or tooth applicator eventually. Into a layer of minimal thickness of 3 mm is pushed the glass mesh and for levelling of the surface a backfilling in sufficient thickness is applied. Adjacent surfaces (windows, doors, banisters, switchgear boxes etc) must be protected against pollution by a suitable foil, tapes etc. Any polluted area must be cleaned in time because removal of dried material is difficult.
Drying, curing, revision time	The drying time depends on the temperature, strength of wind and relative humidity. On principle, protective measures must be taken (e.g. protection against rain) on the worked or just finished surface under adverse conditions. Hardening lasts about 1 day/mm of the coat thickness depending on the weather conditions. At an air temperature of +20 °C and relative air humidity of 65 % re-work is possible not earlier than after 48 hours.
Cleaning tools	Immediately after use clean with water.
Instructions, recommendations, specialties, other	For more instructions for processing, see instructions for processing for the specific system.
DELIVERY	
Colour hue	grey tint
Tintable	The product cannot be tinted.
Packing	The product is packed in 25 kg laminated paper bags.
STORAGE	
Storage	12 months from the production date when stored in original packages, at a minimum temperature of +5 °C and in dry and damp−free places.
Storage period	12 months from the production date
Ecology	Liquidation of not used remains is done by watering and depositing of the hardened inert substance as a building waste. Used packaging is liquidated as composite waste according to the valid legislation.
IDENTIFICATION	
Product group	Adhesive and levelling material
Composition	hydraulic and polymer binding substances, modifying additives, fine-grain fillers

STOMIX, spol. s r. o., 790 65 Skorošice 197, **tel.:** +420 584 484 111, **fax:** +420 584 484 112, **e-mail:** info@stomix.cz, IC: 48400874
The company is registered in the Commercial Register at the Regional Court in Ostrava, part C, Insert 10601.

Catalogue No.: 632000 / 02.06.2016

Safety

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. P260 Do not breathe dust. P280 Wear protective gloves/protective clothing/eye protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical attention. P501 Dispose of container in accordance with local regulations. Hazard determining components: Product during storage life meets the legislative requirements for the content of soluble hexavalent chromium. Additional information: The effect of some of the ingredients on the aquatic environment are unknown. This product contains cement. Product during storage life meets the legislative requirements for the content of soluble hexavalent chromium.

SPECIAL INFORMATION

Regarding orders, transport, handling and storing, general sales conditions are applicable. Usage of the product is described in relevant technological sheet. Respect safety sheet instructions. The prescription is available at authorized dealers and on the address **www.stomix.com**.

The information provided takes in account the current status of the technology. We give general instructions based on our experience with application and results of the material tests. However, the information provided can't take into account the local conditions during the application, therefore, it can't be legally binding. In case of doubts or need to solve specific technical problems, please contact us.

CE

STOMIX, spol. s r. o.
790 65 Skorošice 197
Czech Republic
ID: 48400874

15 | 08-001-01

EN 998-1:2011
Specification for mortar for masonry – Part 1: Rendering and plastering mortar

Fire reaction class:	F
Capillary water absorption:	W2
Diffusion resistance factor:	≤ 25
Adhesion:	≥ 0.25 N/mm^2
Thermal conductivity:	≤ 0.39 W/(m*k) pro P = 50% (predefined value) ≤ 0.43 W/(m*k) pro P = 90% (predefined value)
Durability:	NPD
Dangerous substances:	NPD

WWW link