

Technological instruction No. 03-004

ALFADEKOR G

Catalogue No.: 620200

ALFADEKOR G is water soluble organic decorative mosaic render.



CHARACTERISTICS

Application	It is used as a final surface treatment of vertical building constructions in interior and exterior (plinth walls, sustaining walls, balcony brickwork, facades and walls). External appearance of final decorative treatment corresponds to composition of the material.
Characteristics	The hardened render forms a flexible, abrasion-resistant and for water vapours permeable layer with low disposition to formation of salts on the surface. However at the same time it prevents leakage of the water into the construction. The render is resistant to the climatic and ultra-violet radiance influences. Final surface treatment enables washing of polluted places by water, eventually with detergents. Renders of ALFADEKOR line are supplied in two grain categories F and G and colour combinations according to the current colour card. Resistance to pollution can be increased by painting of hardened render by AK top coat.
Appearance	Maximum granularity 0.6 to 1.2 mm.
Specification	The used biocide product is made using a unique patented Advanced Micro Matrix Technology. It involves a physical bonding of active substances to inert polymer and subsequent slow release with respect to time for the period of several years. Through this action, the growth of algae and fungi (moulds) is prevented and slowed down. If biocide effects of the active substances are maintained, the negative effects on the human health and the environment are minimised.

TECHNICAL DATA

Criterion	Standard/test regulation	Value/Unit	Notes
Density	EN ISO 2811	1.7 – 2.0 g/cm ²	
Equivalent diffusion thickness S _d	EN ISO 7783-2	0.20 m	V2 for thickness of coat 4 mm
Water vapour diffusion resistance factor μ	EN ISO 7783-2	50	V2 for thickness of coat 4 mm
Water permeability rate w	EN 1062-3	< 0.5 kg/m ² .h ^{0.5}	W2 medium
Cohesion	EN 15824	> 0,3 MPa	
Fire reaction of the product	EN 15824	F	not measured
Thermal conductivity	EN 1745	0.7 W/(m.K)	

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended purpose.

SUBSTRATE

Requirements	The bases must be firm and consistent, cleaned from dust, grease spots and all impurities that could reduce the base adhesive capacity. Suitable bases are quality, matured (28 days at least) and consistent cement, lime-cement, polymer-cement renders and backfills and concrete. Also suitably adapted surfaces of expanded polystyrene, polyurethane, insulation renders, chipboard, cement and cement-fibre boards may be used. With these bases the application technology must be consulted with the producer. The material cannot be applied onto previous lime or glue paints. Inconsistent and damaged places of renders and surfaces must be removed and
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repaired. Volume unstable bases, insulation materials and renders are necessary to be provided with a layer of suitably selected backfill material (for example ALFAFIX S1, S11 or TIS) and glass mesh. Bases with supposed increase of humidity in winter period must be frostproof. At realisation of facades exposed to increased humidity (plinth walls, mouldings, membered facades) the evaluation of base status and thorough and careful preparation of the base are recommended. Structural design and quality of detail realisation of contacts with insulation against water, passages and contacts of constructions must be solved in a way that any water leak-in into the construction via the mentioned details is excluded.

Flatness requirements - maximal grain size + 0.5 mm for 1 m of length.

Preparation of the material	<p>All the bases in interior and exterior as well are treated with HC-4 primer before application of ALFADEKOR. We recommend to use the HC-4 primer in tint of dominant grain of ALFADEKOR render.</p> <p>Respective realisation of works may be initiated after complete drying of penetration or base paints - minimally after 4 hours (in dependance on climatic conditions the said period must be adapted - at temperatures lower than +10 °C and under high relative humidity the drying period is even 24 hours).</p>
APPLICATION	
Climatic conditions during application	The works may not be realised under rain, fog, strong wind, areas with direct sunlight, at base temperatures above +30 °C (the sunlit areas can be shaded) and at temperatures lowers than +5 °C. The applied material must be secured against frost and rain influences to complete drying.
Preparation of the material	Before use, the material is mixed using mixing attachment of a hand mixer or forced action mixer. Material consistency can be changed by adding 2% of water at most. It is necessary to mix very slowly, so as not to damage the grains by abrasion.
Consumption	(kg/m ²) ALFADEKOR G: 5.5 - 6.0
Spreading capacity	4.4 m ² / bucket (25 kg) according to the thickness of grain
Composition of surface treatment	<p>Primer:</p> <p>Depending on the kind and condition of the foundation</p> <p>Intermediate coat:</p> <p>HC-4 in the corresponding colour shade</p> <p>Final surface treatment:</p> <p>ALFADEKOR G</p>
Application	ALFADEKOR G is applied exclusively by stainless steel tools. Structuring is done by smoothing or designing by a stainless smoother. The material is spread using gentle slow movements and excess mass is continuously wiped. Too big layer, uneven thickness, and especially intense smoothing may lead to parameters deterioration of the cured ALFADEKOR. Considering the content of natural aggregates, deviations of particular batches cannot be excluded. Differences in consistency (different storage or batch) may cause irregular application or drying. At realisation of particular units of facade the organisation and technological principles must be met. To realise one facade unit with material of one production batch. If more batches are to be processed then they must be mixed together in advance. The units can be realised only with sufficient and trained staff at once. If it is not possible to make the unit at once, the said surface should be suitably divided and at division possible deviations must be taken into account. Adjacent surfaces (windows, doors, banisters, switchgear boxes etc) must be protected against pollution by a suitable tapes, foil etc. Any polluted area must be cleaned in time because removal of dried material is difficult.
Drying, curing, revision time	The material hardens physically though water vaporisation. The material dries up after 28 days. Adverse conditions slow the drying process down. On principle, protective measures must be taken (e.g. protection against rain, protection against sun by shading) on the worked or just finished surface under adverse 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.
DELIVERY	
Colour hue	41 natural colour tints
Tintable	<p>Whitening of the dispersion film:</p> <p>Matting (whitening) of the hardened ALFADEKOR is a normal reaction of the material</p>

during periods of heavy rain, long humid periods, or contact with water streaming down from damaged pipes. Whitening gradually disappears after the end of exposure to adverse factors. Appearance or intensity of whitening strongly depends on protection of the surface with applied ALFADEKOR during drying, before rain 48 hours at least, or before intensive sunlight.

Emulsifier washout:

Based on the conditions slowing down the drying process, surface phenomena (leaches) may appear in the initial phase in not dried coats due to the effect of condensation, vapour, splashing water or rain, because of the auxiliary, water-soluble substances contained in them. Depending on the colour shade intensity, the described effect may differ, which, however, is not material quality deterioration. Such effects usually spontaneously disappear with further exposure to weather conditions.

Potential special setting	Adding other substances into the mixture is forbidden. A preserving agent and agent protecting against fungi and algae are added already during production. A preventive and prolonged effect is achieved. A permanent protection against algae and fungi can't be guaranteed.
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Packing	The product is packed in 25 kg plastic buckets with a handle.
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STORAGE

Storage	When storing in the tightly closed original packaging, the warranty period is 12 months since the production date. Protect the product against frost and do not store it at sunlit 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	mosaic render
Composition	sharp-sorted coloured crushed materials, polymer binding substances, material modifying reologic qualities, surface active agents, biocide agents in the form of capsules (protection against moulds, fungi, algae)
Safety	H412 Harmful to aquatic life with long lasting effects. P273 Avoid release to the environment. Hazard determining components: Contains Terbutryn. Additional information: Contains benzisothiazol-3(2H)-one and 5-Chlor-2-methyl-3(2H)-isothiazolon, mix with 2-methyl-3(2H)-isothiazolonem. May produce an allergic reaction. VOC: Product category A, product subcategories I. The maximum permissible limit VOC content in the product ready to use is 200 g/l mass. Maximum VOC content in the product ready to use is 0.91 g/l mass.

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.

	STOMIX, spol. s r. o. 790 65 Skorošice 197 Czech Republic ID: 48400874	
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EN 15824:2009 Specifications for external renders and internal plasters based on organic binders		
Water vapor permeability: V_2 Water absorption: W_2 Adhesion to concrete: 0.3 MPa Durability: NPD Thermal conductivity: $\lambda = 0.8 \text{ W/(m.K)}$ Reaction to fire: F		