AMK®

DECORATIVE COVERING

TECHNICAL DATA SHEET

MARBLE BASED WALL DECORATIVE COVERING SHEETS

AMK is a wall finishing material made from natural marble aggregates that gives natural stone look. The material is produced in a form of ready to install fiberglass mesh sheets with fixed decorative elements on top of it. Each element is covered with protective APET film that provides fast and easy installation. AMK can be applied on various flat or curved substrates.

PROPERTIES

Lightweight, high resistance to harsh weather conditions and easy installation makes AMK a versatile solution in wall finishing. UV resistant iron oxide pigments provide 21 color solutions and infinite color mixes combined on one ready to install sheet. AMK is flexible and easy to cut material with very little waste during installation. Any white color cement based tile glue is suitable for installation. The same glue is used for grout filling. AMK is washable, impact-resistant, paintable, vapour permeable, colourfast and can take a knock. Slight differences in colour can occur as natural raw materials are used.

APPLICATION

Can be used both indoors and out. For outdoor use water resistant glue. Make measurements and mark horizontal and verticals to obtain straight texture laying. Firstly evenly spread the glue that will cover one AMK sheet on the substrate and then using 6x6 mm notched trowel make vertical rows. Apply the material and embed it thoroughly using flat trowel to squeeze out the air. AMK gets it`s hardness and fixity from the glue so be sure that the glue covers and penetrates whole surface of each AMK element.

SURFACES

AMK can be used on any solid, clean, dry, slightly absorbent surface. Each substrate should be prepared before installation. We recommend to use deep penetrating primer to promote adhesion of the glue to the surface. If you have any doubts, ask for advice.

NOTES

We can prescribe the correct way to use our products successfully, but we cannot check what is done. We can therefore only guarantee the quality of our products while they are covered by our terms and conditions of sale and delivery; we do not guarantee the way that the products are processed. If you have any doubts about a given surface, we recommend that you do a few tests first in order to prevent (future) problems for which we cannot accept any liability. We reserve the right to make any changes that are the result of technical progress.

TECHNICAL DATA

Base:	Calcium Carbonate ($CaCO_3$) aggregates
Aggregate size:	0.1 - 1.5 mm
Binding agent:	Water-based polymer dispersion
Pigments:	UV-resistant iron oxide pigments
Thickness:	1.5 - 2 mm
Protection film:	100% recyclable polymer
Backing:	Fiberglass mesh (cell size: 5x5 mm, d: 145 gr/m²)
Sheet weight:	1.5-1.7 kg (depends on aggregate density)
Dimensions:	Effective area: 0.9 m² Element size: 250x65 mm (48 elements on 1 sheet) Grout size: 8 mm
Fire class:	meets the requirements for building material classifications in accordance with EN 13823:2020 **B - s1, d0** as "no burning drips"
Temp. range:	-50° to +70°C (after processing)
Storage:	+10°C and dry

TOOLS

Measuring tools, a spirit level, masonry cord/marking cord/laser instrument (for setting out the layers), trowel, notched trowel (6x6 mm), scissors/knife, mixer for preparing glue compound, heat gun to bend material over corners. Tools must be cleaned with lukewarm water immediately after use, before the adhesive has hardened.

PROCESSING

Make sure that the surface is suitable for installation of AMK. Check smoothness, sufficient curing and sufficient protection against weather and wind beforehand when processing and during curing. Determine the dimensions (according to AMK sheet size) and mark them out on the wall surface that is to be processed. Heights can be indicated manually on the wall and/or a measuring instrument may be used. Use a building line on the wall with a marking cord or a laser instrument and align the upper side of the elements on the sheet against it. Proper dimensioning is required to make sure that the sheets are laid with accurately and at consistent dimensions. Start the work from any side of the wall. Window frames, sills, scaffolding etc. must be sufficiently covered to prevent dirt. Any dirt must be cleaned with clean water immediately. Evenly spread the glue that will cover one AMK sheet on the wall and then using 6x6 mm notched trowel make vertical rows. Apply the material and embed it thoroughly using flat trowel to squeeze out the air. AMK gets it`s hardness and fixity from the glue so be sure that the glue covers and penetrates whole surface of each AMK element. Grouts can be filled immediately after applying each sheet or after whole surface is covered with AMK. For grout filling use slightly thinner and rubber trowel to get smoother grouts. On the corners make 10-8 mm facet with the glue or bend AMK with heat gun at desired degree. Additionally fill inner side of the bended area with glue before applying to the corner. Start removing the protection film at least 48 hours after installation. Do not remove film under direct sunlight. To ease peeling apply some cold water. If you see aggregates ripping off with the film stop and wait until the glue dries out completely. Glue drying time depends on the surface water absorption, temperature and air humidity. High air humidity and/or low temperatures can extend this period considerably.

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Detailed Technical Data

Main Elements:	Calcium Carbonate ($CaCO_3$) aggregates
Aggregate size:	0.1 - 1.5 mm
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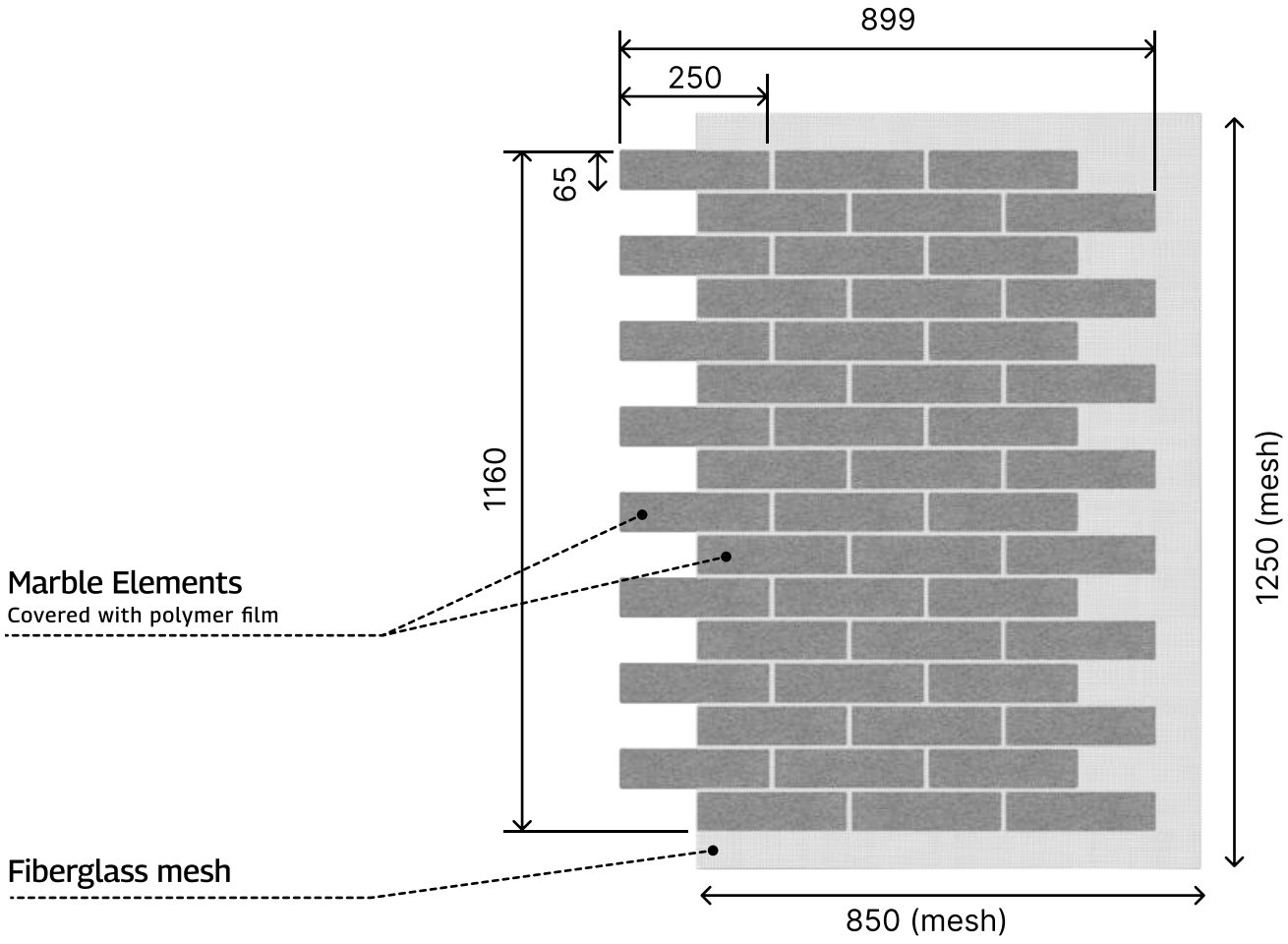
Pigments:	UV-resistant iron oxide pigments
Thickness:	1.5 - 2 mm
Protection film:	100% recyclable polymer
Backing:	Fiberglass mesh (cell size: 5x5 mm, d: 145 gr/m²)
Sheet weight:	1.5-1.7 kg (depends on aggregate density)
Installation conditions:	Air temperature range, from +10°C to +35 °C Avoid direct sunlight Weather without precipitation
Dimensions:	Effective area: 0.9 m² Element size: 250x65 mm (48 elements on 1 sheet) Grout size: 8 mm
Fire class:	meets the requirements for building material classifications in accordance with EN 13823:2020 **B - s1, d0** as "no burning drips"
Temp. range:	-50° to +70°C (after processing)
Storage:	> +10°C and dry



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DECORATIVE COVERING

CE

20.03

DECLARATION OF PERFOMANCE

according to Article 11 (5) Regulation (EU) No 305/2011

Nr. DoP 001 /20

for the product

AMK DECORATIVE COVERING

1. Product type:	AMK decorative covering: Brick, Block, Clinker, Flemish Bond, Rigel
2. Unique identification of the product type	AMK-Brick-20.03 AMK-Block-20.03 AMK-Clinker-20.03 AMK- FlemishBond -20.03 AMK- Rigel -20.03 AMK- Mosaic -20.03 AMK- Honeycomb -20.03
3. Intended use:	For protective and decorative finishing of external and internal surfaces of residential, public, industrial buildings and constructions.
4. Name, registered trade name or registered trade mark and address of the manufacturer in accordance with Article 11 (5) Regulation (EU) No 305/2011:	MIX 300 LLP 050000, Kazakhstan, Almaty st. Jybek Joly 135
5. System or systems of assessment and verification of constancy of performance of a construction product:	System 4
6. For a statement of performance for a construction product subject to a harmonized standard:	SIST EN 15824: 2009

7. Declared performance:

Essential characteristics	Performance	Testing properties according to the standard	Harmonized technical specifications
Response to fire	B – s1, d0	SIST EN 13823:2020 SIST EN ISO 11925-2:2020	EN15824:2017
Tensile strength	0,58 Mpa	SIST EN 1542:2000	
Vapor permeability	V1	SIST EN ISO 7783:2018	
Water absorption	W2	SIST EN 1062-3:2008	

The product features mentioned above are consistent with those features.
For treason of this statement of performance is in accordance with Regulation (EU) 305/2011 the sole responsibility of the manufacturer mentioned above.

Signed for and on behalf of the manufacturer by the director:

Dzhelaukhov A.G.

Date: 13.04.2023

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Durability Test Results

Fire Resistance Test:

Test Method: SIST EN 13823:2020 – Reaction to fire tests for building products – Building products excluding floorings exposed to the thermal attack by a single burning item.

The reaction to fire behavior is classified as: **B-s1, d0**

Description:

- B: The material is classified as flame-retardant. This means that flame spread is limited and the material demonstrates strong resistance to fire.
- s1: Smoke production is very low. During a fire, the smoke generated is minimal, which helps maintain visibility in escape routes.
- d0: No flaming droplets or particles are emitted. When burning, the material does not release hazardous droplets or particles into the surroundings.

This fire resistance test was conducted on July 8, 2021 by the Slovenian National Building and Civil Engineering Institute, Department for Building Physics.
The institute is a member of the European Group of Organisations for Fire Testing, Inspection and Certification (EGOLF).

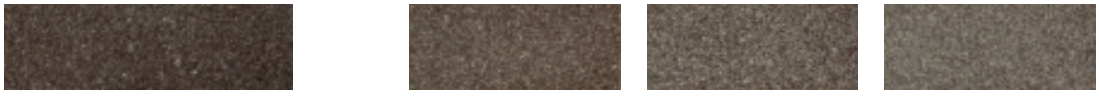
Climate Resistance Test:

Test Phase	Temperature (°C)	Humidity (%)	Duration (hours)
Samples are placed in a heated humidity chamber.	40 ± 2	97 ± 3	6
Heating in the humidity chamber is turned off.	40 ± 2	97 ± 3	2
Samples are transferred to a freezer.	negative (45 ± 3)	not regulated	3
Samples are then transferred to a weather resistance test chamber, where they are exposed to UV radiation (290–400 nm / 35±5 W/m^2) and subjected to a 3-17 cycle (3 minutes of water spray every 17 minutes).	60 ± 3	not regulated	7
Samples are exposed to open air.	from 15 to 30	no more than 80	6

The time between each phase does not exceed 10 minutes.

Evaluation of external appearance after 125th, 130th, and 135th cycles of climate tests:

	Number of Cycles and Indicators		
Name of the indicator	125 / 10 years	130 / 13 years	135 / 17 years
Damage Assessment:			
-Cracking	no	no	no
-Abrasion	no	no	no
-Layer separation	no	no	no
-Wrinkling	no	no	no
-Blistering	no	no	no
External Appearance Evaluation:			
-Change in Gloss	no	no	no
-Dirt Retention	no	no	no
-Chalkiness	no	no	no
-Color Fading:			



According to the results of the accelerated climate test, the material retains its properties for at least 17 years under moderate climate conditions.