



## ATLAS DEKO M

### type TM 3

standard decorative mosaic render

- highly resistant to mechanical damage
- excellent resistance to washing
- creates unique colour compositions



### Properties

ATLAS DEKO M is a line of mosaic renders consisting of a modern base: a mixture of aqueous dispersions of acrylic hydrophobic agents, modifying additives and specially selected coloured quartz aggregates.

ATLAS DEKO M is a light and durable render coating with increased resistance to washing, cleaning and scrubbing.

**Rich colours** - can be applied to a wide range of substrates, great freedom when designing walls in showrooms, car showrooms, offices, flats, stairwells, waiting rooms, lobbies, hallways, facades of residential buildings, public buildings, etc.

**High elasticity, resistance to mechanical damage** - ability to bridge thermal stresses and impacts ensured by high content of dedicated polymer dispersions. The render perfectly compensates for the stresses resulting from different thermal expansion of the layers underneath it, arising, for example, from strong sunlight.

**High durability of the render during use** - through the use of a combination of acrylic dispersions, special additives and modifiers:

- increased durability of the coating,
- increased resistance to weathering and UV radiation,
- increased resistance to microbial growth is provided,
- ensures that the aesthetic appearance of the facade is maintained over the long term.

**Strong surface hydrophobisation, self-cleaning ability** - the highly UV-resistant hydrophobic layer effectively reduces the structural absorption of the render and allows for a water repellent effect that lasts over time, ensuring that dust and dirt particles do not adhere and can be rinsed away during precipitation.

**Dark and intense colours** - natural fillers in the form of coloured quartz aggregates are used in the product, in order to achieve a very wide range of possibilities to shape the render to the tastes and needs of the customers. This gives a rich colour palette that also includes dark and intense colours.

**High colour fastness** - ensured by the use of aggregates coloured with polyurethane resins using special hybrid mixtures of inorganic and organic pigments with increased resistance to external influences.

Type of render ATLAS DEKO M	Type TM 3
appearance	standard effect
number of possible render compositions	20
25.3 kg package	component A - aggregate 17,7 kg component B - base 7.6 kg

### Purpose

ATLAS DEKO M is used for the application of decorative and protective thin-coat renders on the outside of existing buildings, newly constructed buildings and indoors:

- in complex external wall insulation composite systems (ETICS) for buildings, using polystyrene (EPS) boards,
- On even, properly prepared mineral substrates (e.g. concrete, traditional cement and cement-lime renders and gypsum plaster, on gypsum plaster boards, gypsum fibre boards, chipboards, OSB boards, well-bonded paint coatings (e.g. oil paints), etc.).

# ATLAS DEKO M renders are recommended for:

- indoor applications in areas with heavy traffic and high wear and tear (lobbies in schools, kindergartens, healthcare facilities, office buildings, underground passageways, etc.).
- Outdoor applications, for weathering and frequently cleaned surfaces, e.g.: building plinths, fences, retaining walls, columns, façade parts or architectural elements (e.g. bay windows, dormers, etc.).

PLACE OF USE	
facade in an insulation system with polystyrene foam	+
facade in an insulation system with XPS boards	+
single-layer wall facade	+
wall inside the building	+

TYPES OF FACILITIES	
housing construction	+
public, educational, office and healthcare buildings	+
commercial and service construction	+
industrial construction	+
industrial warehouses	+
traffic construction	+
farm and livestock buildings	+
passive construction	+
energy-efficient construction	+

LOCATION	
urban and urbanised areas	+
industrial, investment and economic zones	+
rural and agricultural areas	+
Wetlands and humid areas, surroundings of water bodies	+
close proximity to tree stands and green areas	+
shaded areas	+

SUBSTRATE TYPE	
reinforced layers of insulation systems indicated	+
concrete	+
traditional, cement and cement-lime renders made on brick, block and hollow ceramic, cellular or calcium-silicate walls	+
gypsum plaster, plasterboard (inside the building)	+

## Technical data

density	approx. 1.7 g/cm <sup>3</sup>
diffusion resistance	0.14 m ≤ S <sub>d</sub> < 1.4 m
pH	8
application temperature*	from +5 °C to +30 °C
relative humidity air relative humidity*	< 80 %
render initial drying time**	approx. 15 minutes
render drying time**	approx. 24 h

\*) the preparation of the mass and the substrate and surroundings before starting the works, during the works and the setting period  
(\*\*) at 20 °C and 60 % humidity

## Technical requirements

ATLAS DEKO M render meets the requirements of EN 15824:2017-07 - decorative water-thinnable mosaic render for use on external and internal walls, columns and partition walls.

ATLAS DEKO M (2019) Declaration of performance No. 049/1/CPR. EN 15824:2017	
Intended use: for external walls, ceilings and columns. For internal walls, ceilings, columns and partitions	
Water vapour permeability	V <sub>2</sub>
Water absorption	AT <sub>2</sub>
Adhesion	0.35 MPa
Reaction to fire - for renders up to 2.0 mm - for renders up to 1.2 mm	A2-s1, d0 B-s1, d0

ATLAS DEKO M is a component of the set of products for thermal insulation system em

Name of the system	National Technical Assessment
ATLAS ETICS	ITB-KOT-2020/1616 Issue 2

## Rendering

### The substrate should be:

**stable** - sufficiently stiff and sufficiently long seasoned and primed, dry,

**even** - irregularities and defects should be filled in using e.g. ATLAS ZW 330, ATLAS plastering mortar or adhesive mortars for making the reinforcement layer in thermal insulation systems; before repairing, the substrate should be primed with ATLAS UNI-GRUNT; leaving the surface with a punctured reinforced layer is not allowed (WT ITB for ETICS systems, 2020),

**cleaned** - from layers that may impair adhesion of render, especially from dust, dirt, lime, oil, grease, wax, oil and emulsion paint residues. If there are effects of biological infestation on the substrate (fungi, algae, etc.) they need to be removed using ATLAS MYKOS PLUS or ATLAS MYKOS NR 1.

**protected from contamination** - nearby surfaces, e.g. window frames, should be thoroughly protected before machine application,

### Specific requirements for substrates

Substrate type	Seasoning requirements	Method of priming
reinforced layer in ETICS systems, made of ATLAS STOPPER K-50 mortar	min. 3 days*	does not require a render base
reinforced layer in ETICS systems, made of other ATLAS adhesive mortars	min. 3 days*	ATLAS CERPLAST**
new cement renders made from ATLAS ready-mixed render mortars, traditional cement and cement-lime renders	min. 7 days/1 cm thickness*, moisture content 4%	Initial-priming - ATLAS UNI-GRUNT Main priming - ATLAS CERPLAST**
concrete substrates	min. 28 days*, structural moisture < 4%	ATLAS CERPLAST**
Paint coatings with good adhesion to the substrate in internal applications	no requirements	ATLAS CERPLAST**
gypsum substrates	moisture content < 2%	- Initial-priming - ATLAS UNI-GRUNT - Main priming - ATLAS CERPLAST**
gypsum plasterboards and fibre cement boards, firmly fixed in accordance with manufacturers' recommendations and the rules of the art		

\*) Note: applies to curing conditions: T= +20° C, 50 % humidity

\*\*) it is recommended to use ATLAS CERPLAST in one of the recommended colours (the table with the appropriate colour of the primer can be found in the paragraph IMPORTANT ADDITIONAL INFORMATION)

Renders applied for ATLAS DEKO M should be trowelled sharply and, in addition, in the case of gypsum plaster, the render should not be "drawn out". When gypsum plaster has been classically smoothed during application, the surface should be matted.

### Preparation of the rendering mix

#### ATLAS DEKO M - Type TM 3

The set consists of two elements:

- component A, i.e. coloured aggregate composition in bags 17.7 kg
- component B, the base in a bucket (7.6 kg).

The aggregate should be poured into the bucket with the base. The render thus prepared should be mixed thoroughly.

### Aggregates

Dyed aggregate colours to prepare TM type 3	Grain size
001 formerly 113	0,6 - 1,2
002 formerly 311	0,6 - 1,2
003 formerly 214	0,6 - 1,2
004 formerly 215	0,6 - 1,2
005 formerly 116	0,6 - 1,2
006 formerly 115	0,6 - 1,2
007 formerly 216	1,4 - 2,0
008 formerly 117	0,6 - 1,2
009 formerly 212	0,6 - 1,2
010 formerly 412	0,6 - 1,2
011 formerly 312	0,6 - 1,2
012 formerly 313	1,4 - 2,0
013 formerly 513	0,6 - 1,2
014 formerly 413	0,6 - 1,2
015 formerly 414	0,6 - 1,2
016 formerly 316	0,6 - 1,2
017 formerly 512	0,6 - 1,2
018 formerly 221	0,6 - 1,2
019 formerly 418	0,6 - 1,2
020 formerly 220	0,6 - 1,2

### Preparation of mass for application

The mass must not be combined with other materials, diluted or thickened. The mass must be stirred to an even consistency immediately before use.

### Application of compound and smoothing of render

The compound should be applied to the substrate in a layer the thickness of an aggregate, using a smooth stainless steel trowel (standard or Venetian), while smoothing continuously in the same direction. The trowel should be guided at the smallest possible angle to the surface to be smoothed in order to avoid fine irregularities. Excess material should be drawn back into the bucket and stirred. Uneven smoothing can result in local variations in colour shade on the rendered surface.

Manual application of the compound and smoothing of the render using a stencil

For additional visual effect, a self-adhesive cardboard stencil can be used (this is available from the supplier on special order). The stencil reproduces the shapes of natural stone or brick on the wall. To make the effect obtained with the stencil (available on request from the supplier) more visible, the use of ATLAS CERPLAST primer in a contrasting colour to the render composition is recommended. After the primer has dried, stencil sheets should be glued one next to the other over the entire rendered surface, taking care of the accuracy of the joint (both the stencil with the substrate and the stencils between each other). Then, the ATLAS DEKO M render should be applied according to the technology described in the previous paragraph. Immediately after the application of the render, all sheets of the stencil should be peeled off one by one. Once all the sheets have been peeled off, ATLAS CERPLAST will degout the joint between the stone imitation surfaces.

Consumption

Average consumption of ATLAS DEKO M type TM 3 render:

- 3-4 kg/m²
- 4.5-5.5 kg/m² for render Nos. 007 and 012.

It depends on: the type of substrate, the thickness of the layer, the appearance of the expected final texture.

We recommend that you determine the exact consumption of the material on a trial basis.

Packaging

Name of variant	Packaging
ATLAS DEKO M type TM 3 - 25.3 kg	plastic bucket with base 7.6 kg bags with aggregate composition 17.7 kg

Safety information

Safety information is given on the product packaging and in the Safety Data Sheet, available at [www.atlas.com.pl](http://www.atlas.com.pl).

Storage and transport

Information on storage and transport is given on the product packaging and in the Safety Data Sheet, available at [www.atlas.com.pl](http://www.atlas.com.pl).

The shelf life of the product (shelf life) is 12 months from the date of manufacture of the base.

Important additional information

As a standard, the application of ATLAS CERPLAST primer in white (not tinted) or in tinted colours: clinker and brown is recommended under selected colour compositions.

Primer colour ATLAS CERPLST	Colours of ATLAS DEKO M - Type TM 3
BRONZE	013, 016 , 017, 018
CLINKER	019
WHITE	001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 014, 015, 020

After application, the render is milky white in colour and acquires its proper colour after it has dried completely. High atmospheric humidity and low temperatures may prolong the setting time of the render and cause a change in shade.

The appearance of mosaic render on different surfaces can vary. This is due to the peculiarities of this type of product, especially the content of several colours of mineral aggregates. Clusters of aggregates in one colour are not regarded as a defect in the material.

With constant contact with water, a 'slickness' may appear which disappears when the surface dries. Avoid using render where it will be exposed to prolonged exposure to water or moisture (e.g. on horizontal surfaces or those with a slight slope, in ponds, etc.), as well as on elements that do not have adequate damp proofing.

- To avoid variations in the colour shades of ATLAS DEKO M TM 3 render:
- render with the same base production date should be applied to a single surface,
  - when aggregates from several bags are used on one surface, they should have the same production date,
  - try to perform one surface in one process cycle,
  - always mix the mixture before use.

It is necessary to determine experimentally (for a given type of substrate and given weather) the maximum surface area possible in one process cycle (stretching and smoothing).

When joining process fields, use the wet-on-wet method, not allowing the smoothed batch to dry. Otherwise, the location of this joint will be visible. Technological breaks should be planned in advance, e.g: in the corners and folds of the building, under drain pipes, at the junction of colours, etc.

The rendered surface should be protected, both during the work and during the render drying period, from direct sunlight, wind and precipitation.

It is imperative that protective nets are used on scaffolding for external applications. If daytime air and surface temperatures before application or during setting  $> +25^{\circ}\text{C}$ , limit application to morning hours only. Failure to follow these recommendations may result in insufficient transparency of the binder in areas exposed to strong sunlight or direct exposure to temperatures higher than those indicated in this data sheet.

The drying time of the render, depending on the substrate, temperature and relative air humidity, is approx. 24 hours. In conditions of increased humidity and a temperature of approx.  $+5^{\circ}\text{C}$ , the render's setting time may be prolonged.

Clean the tools with clean water immediately after use. Use ATLAS RESIN AWAY to remove difficult to remove remains of the set compound.

The information contained in this Technical Data Sheet is a basic guideline for the use of the product and does not relieve the user of the obligation to carry out the work in accordance with the rules of the art of construction and safety regulations. With the issue of this Technical Data Sheet, all previous ones are no longer valid. The documents accompanying the product are available at [www.atlas.com.pl](http://www.atlas.com.pl).

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**Update date: 2022-09-09**