



ATLAS CERAMIC GROUT

Fine-aggregate cement grouting mortar

- stain-resistant – facilitates keeping cleanliness
- resistant to scrubbing and repeated washing
- durable, unchanged colour – no discolouration
- elastic – contains fibres
- perfect for kitchen, bathroom, balcony and terrace



Innovative technology

ATLAS CERAMIC GROUT is perfectly suited to the needs of contractors who require work convenience as well as for demanding investors who value aesthetics, functionality, safety and long-lasting effect.

Contractor friendly – unprecedentedly easy cleaning and profiling.

Owing to the innovative recipe grout has ceramic finishing, characterized with high durability during long-term exploitation, particularly:

- elimination of micro scratches and cracks – owing to content of fibres with appropriate diameter and length, the reinforcing structure is formed during mortar mixing.
- elimination of discolouration and efflorescence – owing to use of high quality mineral compounds,
- high resistance to UV radiation, allows for keeping durable and intensive colours for many years – owing to use of special and selected inorganic pigments, additionally protected from degradation with hydrophobic polymer,
- high resistance for washing, scrubbing, abrasion and cleaning agents – keeping grouts clean is easy during the whole exploitation time.

Properties

ATLAS CERAMIC GROUT is manufactured in form of dry mixture of highest quality cement, specially selected fine aggregates, fillers, pigments and modifying agents.

Very low water absorption – grout has early resistance for washing even during setting (no washing off the grout during application and first washing)

Stain resistant – facilitates keeping cleanliness, use of structural hydrophobic and oleophobic agents protects top surface and structure against penetration of dirt and arising discolouration during exploitation (grout reaches full dirt resistance after 21 days).

Resistant to scrubbing and repeated washing – cleaning does not decrease hydrophobic and oleophobic properties (grout reaches full scrub resistance after 21 days).

Durable, unchanged colour – no discolouration and so called “marble effect” owing to the specially selected range of pigments,

Very high mechanical resistance – grout is resistant to high exploitation loads, including intensive use of cladding. Owing to the content of fibres, grout maintains high elasticity and resistance to cracking.

Improved bonding to the tile edges – even in case of occurring of large exploitation loads or cladding thermal deformation.

Resistant to temperatures from -30°C up to +80°C.

Use

For any cladding on any substrate, indoors and outdoors. Recommended for the dry, humid and wet rooms, on floor heating, deformable substrates, facades, etc.

TYPE OF CLADDING ELEMENTS*	
ceramic glazed tiles	+
terracotta	+
gres (porcelain, laminated)	+
natural stone cladding (granite, marble, travertine, syenite, slate, etc.)	+
clinker and cotto	+
stoneware cladding	+
ceramic mosaic	+
glass mosaic	+
glass tiles (resistant to scratches)	+
decorated tiles with delicate pattern	+
mirrors, mirror tiles and other surfaces susceptible to scratching	+
metal tiles and aluminium sheets	+
glass brick	+
clinker brick	+

*before grouting the whole cladding, carry out test application on a small fragment.

SIZE OF CLADDING ELEMENTS	
small and medium size tiles (< 0.1 m ²)	+
large size tiles (< 0.25 m ²)	+
extra-large size tiles (> 0.25 m ²)	+
slim tiles	+

PLACE OF APPLICATION	
surfaces with low traffic	+
surfaces with moderate traffic	+
surfaces with large traffic	+
surfaces with low exploitation loads in any building type	+
surfaces periodically washed with water	+
surfaces often washed with water	+
surfaces washed with water and cleaning agents (household use)	+
surfaces washed with water and aggressive chemicals**	+
surfaces exposed to chemicals**	use ATLAS EPOXY GROUT

**estimation of chemical load and chemical resistance confirmation is necessary

TYPE OF SUBSTRATE UNDERNEATH CLADDING - standard	
cement floors and screeds	+
anhydrite screeds	+
cement, cement lime plasters	+
gypsum plasters	+
wall made of cellular concrete	+
wall made of silicate brick or hollow blocks	+
wall made of ceramic brick or hollow blocks	+
wall made of gypsum blocks	+

TYPE OF SUBSTRATE UNDERNEATH CLADDING – difficult	
concrete	+
terrazzo	+
mineral, dispersive and reactive sealing coats	+
plasterboard dry lining	+
screeds (cement or anhydrite) with heating systems: water or electric	+
screeds with heating mat embedded in adhesive	+
plasters with wall heating	+
plasterboards (walls and casings, including fireplace casings)	+
gypsum fibreboards	+
cement fibreboards	+
existing ceramic or stone cladding (tile on tile)	+
resin varnishes for concrete bonded with substrate	+
dispersive, oil painting coats bonded with substrate	+
timber floors (thickness >25mm)	+
OSB/3, OSB/4 and plywood on a floor (thickness > 25 mm)	+
OSB/3, OSB/4 and plywood on a wall (thickness > 18 mm)	+
metal and steel surfaces	+
plastic surfaces	+

OBJECT TYPE – individual and collective residential buildings	
living room, kitchen, bathroom, laundry, halls	+
garage in individual residential buildings	+
garage in collective residential buildings	+
terraces	+
balcony, loggia	+
external slab stairs	+
external beam stairs e.g. cantilever	+
communication routes	+
facades (including thermal insulation systems)	+
façade plinths	+

OBJECT TYPE - office	
office	+
kitchen and kitchenette	+
bathroom and shower	+
corridors and staircases	+
multi-storey garage	+
small architecture elements	+
cladding on façade	+
terrace and balcony	+
external stairs	+

OBJECT TYPE – public facilities, healthcare, educational, commercial, service, sacral buildings	
halls, corridors, staircases	+
office	+
bathrooms and showers	+
industrial laundries**	+
industrial kitchens with adjacent rooms**	+
rooms in nurseries, kindergartens, schools and other educational and cultural premises	+
lecture halls, seminar rooms, etc.	+
laboratories**	+
storage rooms	+
receptions, wards, consulting offices and other healthcare premises	+
rooms in healthcare objects (where sterilization with UV lamps is required)	+
sterile rooms in healthcare objects, operating theatres, etc.**	use ATLAS EPOXY GROUT
sales rooms in pharmacies with adjacent surfaces	+
surfaces in sacral buildings	+
commercial halls and auxiliary premises in shopping malls	+
areas in commercial buildings of any type	+
large size garages and car parks	+
diagnostic stations	+
auxiliary areas in sport stadiums	+
pool basins	+
swimming pools: adjacent premises (changing rooms, shower rooms etc.)	+
beaches around pools, balneotechnique objects**	use ATLAS EPOXY GROUT
areas in SPA objects, sauna and jacuzzi	+
car showrooms	+
garages	+
car washes	+
fire protection water storage tanks	+
fountains	+
ceramic cladding on façades	+
terraces and balconies	+
external stairs	+

**before grouting the whole cladding, carry out test application on a small fragment.

OBJECT TYPE – transport infrastructure	
railway and bus stations: platforms, communication routes	+
railway and bus stations: sales halls, waiting rooms	+
railway and bus stations: adjacent and auxiliary rooms	+
airports: halls, communication routes, waiting rooms	+
airports: adjacent and auxiliary rooms	+

OBJECT TYPE – manufacturing, industrial	
production areas: food industry, fruit and vegetable industry**	+
production areas: areas not exposed to aggressive chemical load	+
production areas: production of artificial fertilizers**	use ATLAS EPOXY GROUT
production areas: surfaces loaded with chemicals**	use ATLAS EPOXY GROUT
production areas: auxiliary rooms (changing rooms, washing rooms, offices etc.)	+
agriculture: animal husbandry areas with auxiliary rooms	+
wash rooms, production premises and auxiliary rooms washed with plenty of water	+
accumulator rooms**	use ATLAS EPOXY GROUT
warehouses	+

**estimation of chemical load and chemical resistance confirmation is necessary

Colours

Manufactured in 40 colours – compliant with colours of ATLAS grouts and silicones.

Technical Data

Bulk density (of dry mix)	approx. 1,2 kg/dm ³
Mixing ratio (water/dry mix)	0,24-0,27 l / 1 kg 0,48-0,54 l / 2 kg 1,20-1,35 l / 5 kg
Min./max. joint width	1 mm - 20 mm
Mortar preparation temperature, substrate and ambient temperature during application	from +5 °C up to +35 °C
Maturing time	approx. 5 minutes
Pot life	approx. 60 minutes
Initial cleaning	after 10-30 minutes
Final cleaning	after approx. 4-8 hours
Lightweight foot traffic	after approx. 6-8 h hours
Full mechanical load	after approx. 24 hours
Full scrub resistance	after approx. 21 days of binding
Full dirt resistance	after approx. 21 days of binding

The time shown in the table is recommended for the application in temperature 23°C and humidity 55% (approx.).

Technical requirements

Product conforms to the PN-EN 13888:2010 standard.
Declaration of Conformity no. 230.

PN-EN 13888:2010	
EN 13888:2009 CG 2 W A Cement mortar for filling joints of increased parameters: high abrasion resistance and reduced water absorption.	
Resistance to abrasion	≤ 1000 mm ³
Flexural strength after storage in dry conditions	≥ 3,5 N/mm ²
Flexural strength after freeze-thaw cycles	≥ 3,5 N/mm ²
Compressive strength after storage in dry conditions	≥ 15,0 N/mm ²
Compressive strength after freeze-thaw cycles	≥ 15,0 N/mm ²
Shrinkage	≤ 2 mm/m
Water absorption	
- after 30 min	≤ 2 g
- after 240 min	≤ 5 g

Product has been given the Hygienic Attest for following colours: 001, 018, 019, 020, 022, 023, 024, 025, 027, 031, 034, 035, 036, 037, 118, 120, 123, 124, 136, 200, 201, 202, 203, 204, 205, 206, 207, 209, 210, 211, 212, 215, 217.

Grouting

Substrate preparation

Carefully clean the joints between tiles. The joints should be of even depth - while fixing tiles, remove excessive adhesive immediately. Grouting can start only when the adhesive sets (details in Technical Data Sheets of ATLAS adhesives for tiles). In case of use of ATLAS MIG 2 or ATLAS PLUS EXPRESS adhesive, grouting can begin after 4 hours. Directly before grouting, clean surface with moistened sponge and moisten slightly the joints in order to unify and limit the substrate absorptiveness.

Mortar preparation

Pour the mortar from the bag into a container with suitable amount of water (see Technical Data for ratio) and mix until homogenous. Mixing can be carried out manually or mechanically. The mortar can be used after 5 minutes and remixing. It should be used up within 2 hours. When the mortar is prepared, it cannot be diluted with water nor thickened with dry mix.

Grouting

Apply the mortar deep and tight into the joints with the use of a rubber float. Lead the float diagonally to the edges of tiles at an angle of ca. 45° to the tiles surface.

Cleaning

The grout cleaning consists of 3 stages: initial cleaning, profiling, and final cleaning.
Initial cleaning. When the grout gets matt, wash the whole surface with a damp sponge (after approx. 10-30 minutes) in order to remove soiling and tarnish from the tiles. Sponge should be often washed with clean water. Time of cleaning depends on temperature and humidity in a room and on the type of cladding. Initial cleaning after start of grout setting may result in obtaining colour different than in colour palette.

Profiling. Grout profiling can be carried out during initial cleaning, before grout hardening. Use grouting sponge slightly moistened with water.

Final cleaning. Final cleaning is carried out after grout hardening, after approx. 4-8 h. The whole surface should be cleaned with damp sponge.

Maintenance. Grout should be protected against excessive drying.

Cladding use

Lightweight foot traffic is available after 6-8 hours since grouting. Full surface load can start after approx. 24 hours.

Consumption

The grout consumption depends on the width and the depth of the joints and the type and size of the tiles used. It can be calculated for a given surface according to the formula:

$$z = (a1+a2)/a1 \times a2 \times S \times b \times c \times g$$

z – amount of grout needed [kg]

a1 and a2 – tile length and width [m]

S – surface to be grouted

b – joint depth [m]

c – joint width [m]

g – grout density [kg/m³] = 1650

Examples of consumption:

Tile size	Width of joint	Depth of joint	Consumption
0.02 m x 0.02 m	0.002 m (2.0 mm)	0.002 m (2.0 mm)	approx. 0.65 kg/m ²
0.10 m x 0.10 m	0.003 m (3.0 mm)	0.0075 m (7.5 mm)	approx. 0.75 kg/m ²
0.30 m x 0.30 m	0.004 m (4.0 mm)	0.0075 m (7.5 mm)	approx. 0.35 kg/m ²
0.30 m x 0.60 m	0.005 m (5.0 mm)	0.0075 m (7.5 mm)	approx. 0.30 kg/m ²
0.50 m x 0.50 m	0.005 m (5.0 mm)	0.0075 m (7.5 mm)	approx. 0.25 kg/m ²
0.60 m x 0.60 m	0.005 m (5.0 mm)	0.0075 m (7.5 mm)	approx. 0.20 kg/m ²

Packaging

Alubags: 2 kg and 5 kg

Important additional information

- Before grouting the whole cladding, carry out test application on a small fragment (best on a waste piece of tile) and test cleaning in order to eliminate the tile discolouration. In case of discolouration, tile should be impregnated with ATLAS IMPREGNATING SEALER FOR GROUTS AND TILES or ATLAS IMPREGNATING SEALER FOR NATURAL STONE AND GRES.
- In order to avoid various colour shades, it is recommended to use grout of the same manufacturing date and the same batch number for each individual surface.
- Silicones and grouts are manufactured on the basis of different types of binders, therefore differ in the degree of smoothness and gloss. These factors naturally influence the colour shade of each product type.
- The real grout colour is set when the grout sets and dries, after approx. 2 – 3 days.
- For at least first 3 days the grout must not be exposed to precipitation, low temperatures (below +5°C) and high air humidity.
- Joints located in particular parts of cladding (internal and external corners, expansion joints) should be filled with permanently elastic materials e.g. ATLAS SILTON S silicone.
- The colour shown on the package front has a view character. Due to difference in technologies used in poligraphy and construction any differences between shades of a particular product colour and its simulation shown on the package does not constitute the basis for any claims against the editor as well as ATLAS. The particular colour shade depends on its texture homogeneity, conditions of use, substrate and ambient conditions as well as lighting conditions. The actual colour shade may to some extent differ from the one shown on the label. Use the grout of the same manufacturing date and the same batch number for each individual surface.
- The tools must be cleaned with clean water directly after use. Difficult to remove residues of the set adhesive can be removed with the ATLAS AGENT FOR REMOVAL OF CEMENT DEPOSITS AND STAINS.
- Contains cement. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Contains biocides 2-octyl-2H-izothiazol-3-one CAS: 26530-20-1. Keep out of reach of children. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation or a rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Follow the instructions of the Safety Data Sheet.
- The mortar must be transported and stored in tightly sealed original and labelled bags, in dry conditions, most preferably on pallets. Keep away from direct sunlight. Keep in dry, cool, well ventilated room, away from incompatible materials (acids, ammonia salts, aluminium and other base metals), food and beverages. Protect against humidity – product hardens and gets irreversibly solid after exposure to the dampness. Packaging should be stored in a manner that ensures stability. Under the above conditions, no adverse interactions are known. Shelf life in conditions as specified is 24 months from the production date shown on the packaging. Content of soluble chromium (VI) in ready-to-use mix - ≤ 0.0002%.

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations. At the time of publication of this product data sheet all previous one become void.

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