



BE SURE. BUILD SURE.

M 36 F (Previously known as Botament M 32 UW)

Fine Joint Grout

Product Properties

- joint width 5 mm
- no additional latex additive required
- polymer-modified
- water repellent
- reduces efflorescence
- ideal finishing point for mosaic
- excellent adhesion
- excellent workability
- for interior and exterior use
- for almost every kind of tiles
- classification according to
BS EN 13888: 2009

M 36 F: CG2WA

Improved cementitious grout with reduced water absorption and high abrasion resistance

Area of Application

- For areas which are subject to permanent water pressure & chemical strain such as swimming pools, fish ponds etc. use the enhanced joint grout M 36 F

Application

Application:

The pot life is approx. 45 mins.

M 36 F is applied with a rubber trowel or rubber squeegee by pressing the material firmly into the tile joints. Make sure the entire joints are filled completely. Immediately remove remaining material from the tile surface by using the same tool in a diagonal motion. Wait for a certain time until the material in the joints starts to set. Use the thumb to compress the joint grout. When M 36 F started to harden and only little residue remains on the thumb, start shaping the joint surface. Use a sponge and moisten it with very little water. In circular motions shape the joint by distributing the grout evenly over the entire surface.

Wait for a certain time until the material in the joints starts to set again. Use the thumb to compress the joint grout. Use a sponge and moisten it with very little water. Remove the grout residue in a diagonal motion. Clean the sponge regularly with clean water. After joint grout is hardened clean the remaining cement haze with a dry cloth or slightly moist sponge. The use of acidic cleaning agents should be avoided as this can harm the joint grout. Wetting the material with clean water the days following the application supports the hydration process and will result in a higher strength. Avoid application under direct sunlight and strong wind.

Properties:

M 36 F is a high-performance cementitious polymer-modified joint grout. It contains dry polymers in powder form which makes the usage of additional latex unnecessary. The special formulation with hydrophobic additives provides a high level of water repellency, minimises efflorescence and makes the joint grout less prone to dirt stains. It's designed for applications in joint width up to 5 mm. For wider tile joints, use M 31 which is designed for widths from 5 to 15 mm.

The product achieves a very consistent colour which upgrades the entire appearance of the installed tiles. M 36 F is the ideal finishing point for glass mosaic, it perfectly matches the mosaic's colour and surface texture.

Mixing:

Mix M 36 F with only clean and potable water. For one 5 kg bag approx. 1.25 – 1.3 lit of water are required. Add gradually the powder to the water while mixing to achieve a lump-free mix. Use a slow speed drill mixer (400 – 500 rpm) and mix for a minimum of 3 minutes to produce a homogeneous consistency. After a maturity time of 3 minutes, mix the material again for 1 minute to attain long workability. Material which has set must not be mixed again with additional water as this will affect the final properties.



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Application

Suitable Substrates:

M 36 F adheres to almost all kinds of mineral substrates such as concrete, screeds, render, brickwork, plaster boards, light-weight blocks, etc. which have received tile finishing.

Substrate Requirements:

The substrate and tile joints must be clean, solid, stable, free of any loose particles, grease, oil, paint, cement lime or other materials which might affect the adhesion. The tile adhesive must have sufficient strength and must be dry. The tile shoulders should be equally absorbent to avoid discolouration.

Substrate Preparation:

The tile joints must be cleaned from dust and any residue of tile adhesive. Absorbent materials should be pre-wetted prior to application but standing water is to avoid.

On very fine pored materials the joint grout can be trapped which discolours the tiles. We advise to do a mockup with sensitive materials and natural stones.

Material Base:

Cementitious composite with mineral aggregates and dry powder dispersants.

Setting time:

For M 36 F the curing and waiting time before putting into service is 7 days.

The drying times are approximate and will be affected by ambient conditions. High temperature and low humidity quicken the drying process whereas low temperature and high humidity retards the drying process.

General Remarks:

We advise to do a mockup with sensitive tile material and natural stones.

Protect M 36 F against moisture or adverse weather conditions until the material is completely set.

Avoid heavy mechanical stress during curing as this will affect the final properties and can cause cracks.

All technical data stated in this datasheet are based on test under laboratory conditions. Actual-achieved data may vary due to different ambient conditions at job sites.

The Material Safety Data Sheet is available on request.

Consumption:

The consumption varies with the type of tiles used as well as the particular joint width at application.

Approximation (no wastage included):

Tile 20 x 20 x 4 mm
2 mm joint width: ~ 1.2 kg/m²

Tile 50 x 50 x 4 mm
2 mm joint width: ~ 0.5 kg/m²

Tile 100 x 100 x 6 mm
3 mm joint width: ~ 0.6 kg/m²

Tile 100 x 200 x 6 mm
5 mm joint width: ~ 0.8 kg/m²

Cleaning:

With water while material is wet.

Technical Data:

In parentheses are the requirements according to BS EN 13888:2009

M 36 F

Flexural strength after dry storage:
10.06 N/mm² (≥ 2.5 N/mm²)

Compressive strength after dry storage:
33.75 N/mm² (≥ 15 N/mm²)

High abrasion resistance:
94 mm³ (≤ 1000 mm³)

Reduced water absorption after 30 min:
0.63 g (≤ 2 g)

Reduced water absorption after 240 min:
1.13 g (≤ 5 g)



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Technical Data for M 36 F (according to BS EN 13888:2009)

Characteristic	Unit	Value	Comments
Colour			White, Grey and Ivory
Low Chromate Content			Yes
Mixing Ratio	liter	~ 1.25 – 1.3 : 5kg	Water
pH-Value		11	
Joint Width	mm	Up to 5	
Foot-trafficable after	hours	12	
Full load after	days	7	
Wet Density	kg/lit	~1.5	
Pot Life	minutes	~45	At 25 °C
Application conditions	+°C	8-30	max. 80% r.h.

Product Characteristics for M 36 F

Packaging	5 and 25 kg bag
Storage	Keep cold and dry.
Shelf Life	12 months if kept in original, unopened and undamaged sealed bags.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 02/22. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.