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OLYMPUS®

TECHNICAL DATA SHEET

OLY GROUT F3

Plaster for repairs and static reinforcement

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Plaster for repairs and static reinforcement

OLY GROUT F3 is a cement-based base plaster for structural reinforcement. It is suitable for the execution of plasters with structural functions, also in combination with *OLY MESH* structural meshes, for interiors and exteriors in restoration or renovation operations. Compressive strength: 30 N/mm^2.
The surface must be coated after a minimum of 6 weeks but no more than 3 months. Not suitable for masonry with highly porous blocks. Any special additives may only be added with the manufacturer's permission.

CE

Technical data	Value
Units per pallet	54 cf./pallet
Quantity per unit	25 kg/cf.
Grain size	0 - 3 mm
Yield wet mortar	approx. 16 l/cf.
Consumption	approx. 17,5 kg/m²/cm
Yield	approx. 16 l/cf.
Water requirement	approx. 4,2 l/cf.
Thickness	20 - 120 mm
Bulk density - after drying at 105 °C	< 2.000 kg/m³
Specific weight fresh mortar (EN 1015-6)	approx. 2.050 kg/m³
Bulk density (B3345)	approx. 1.600 kg/m³
Thermal conductivity $\lambda_{10,\,dry}$ (EN 1745:2002)	1,11 W/mK (tabular value) for P=50%
Thermal conductivity $\lambda_{10,\,dry}$ (EN 1745:2002)	1,21 W/mK (tabular value) for P=90%
Specific heat	approx. 1 kJ/kg K
Compressive strength (28 days)	≥ 30 MPa
Flexural strength	≤ 5,5 MPa
Adhesion to substrate	> 1,5 MPa
Elastic modulus	approx. 25 GPa

Technical data	Value
GM (EN 998-2)	M30
GM (EN 998-1)	CS IV
Test certificates	Conforms to EN 998-1 and EN 998-2
Packaging instructions	In damp-proof paper bags
Reaction to fire	A1

Base material

- Cement
- Selected sands

Processing conditions

During processing and drying, the ambient and substrate temperature must not fall below +5 °C. Until completely dry, protect against frost, too fast drying (direct sunlight, wind) and subsequent moisture (rain).

Support

The substrate must be dry, dust-free, frost-free, absorbent, flat, sufficiently rough and consistent, as well as free of efflorescence and release agents such as release oil or similar. The substrate must first be wetted to saturation, adequately and in good time.

Preliminary treatment of the substrate

When applying the repair and static reinforcement plaster, there must be no water film on the surface.

Preparation

Mix the repair and static reinforcement plaster with the prescribed amount of water using a suitable continuous mixer or in a concrete mixer for approx. 2 minutes until a homogeneous mixture is obtained. Material remaining in open containers must not be used or mixed with fresh material.

Processing

The product can be applied to the adequately prepared substrate with suitable spraying machines using the wet process, mixing in the predetermined amount of water. The surface can be levelled and smoothed within the pot life. First, cavities and irregularities in the surface must be reprofiled, after which the desired layer thickness is applied. Joints in the substrate must also be reprofiled in the coating layer.
We recommend the use of a compressor with high power (at least 400 litres/min.). Take care to fully encapsulate the reinforcement (of any kind) and close any underlying voids.

Hazard Considerations

Safety data can be found in the Safety Data Sheet. Please consult the sheet carefully before using the product.

Processing instructions

Appropriate after-treatment must be provided in accordance with OLYMPUS guidelines.

Storage

Store in a cool, dry place, preferably on wooden pallets.
Shelf life: minimum 12 months according to Directive 1907/2006/EC Annex XVII at 20°C and 65% relative humidity.

General warnings

The technical and mechanical characteristics and the application procedures indicated in this data sheet are based on extensive analysis of the state of the art of research and applications in the field. However, they cannot guarantee the final outcome of the applied product, particularly regarding the application of systems that must be installed by specialized personnel. The data have been developed with the utmost care and awareness, without any guarantee of accuracy and completeness and without any responsibility for any further decisions made by the user. The data in themselves do not imply any legal commitment or secondary obligations of any kind. The data do not exempt the client from independently verifying the product's suitability for its intended use. The buyer is responsible for ensuring the suitability of the products described in this document for the use and purposes intended. Olympus Srl assumes no responsibility for the misuse of the material. The customer must ensure that this sheet and the data contained within it are valid for the specific batch of product in question and have not been superseded by newer editions, formulations, or certifications. We recommend that customers contact our Technical Office for further clarification. This edition supersedes all previous versions.
To verify the latest version of this technical data sheet, information, technical assistance, and other structural reinforcement systems, please contact the Olympus technical office:
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Product for professional use