GAPER 3.30

DATA SHEET

Semi-fast setting, thixotropic, fibre-reinforced cement mortar, extra-white and grey, for interiors and exteriors

Interior/Exterior

Interior/exterior flooring

Sack

By hand

Metal trowel

Plastic trowel

Sponge float

Advantages

- Excellent workability
- Fibre-reinforced
- Also available in the extra-white version
- Excellent float finish

Composition

GAPER 3.30 is controlled-shrinkage waterproof mortar made from special cements, inorganic fillers, extra-white carbonates (in the white version), synthetic fibres and additives to improve workability and adhesion.

Supply

- Special bags with moisture protection from approx. 25kg

Use

GAPER 3.30 used to smooth and level off uneven interior and exterior concrete or masonry surfaces, both horizontal and vertical, with thicknesses from 3 to 30 mm. It is also suitable for repairing steps, for levelling or correcting the heights and slope lines of cement floor screeds or ceramic floor tiles, after suitable preparation. The substrates will soon be suitable for applying ceramic or stone coverings and waterproof coatings (such as AQUAZIP GE 97 etc.).

Substrate preparation

The substrate must be cured, intact, dry, absorbent, dimensionally stable, rough and mechanically resistant. Any traces of grease, oil and wax etc. must be removed beforehand, along with any crumbling or loose parts. Deteriorated concrete that is becoming detached should be removed until reaching a solid, strong and roughened substrate. Any cracks or recasting on horizontal surfaces will be structurally sealed using FASSA EPOXY 300 epoxy sealant. For reinforced concrete, if the cleaning operation affects the reinforcing rods, after having carefully and vigorously sand-blasted or brushed the rods, treat them with FASSAFER MONO one-component cement grout or with BF 501 two-component cement grout, to avoid corrosion.
For cementitious surfaces with insufficient resistance, assess the need for consolidation with PRO-MST, a specific high-penetration product.
Substrates that are highly absorbent or exposed to sunlight and wind should be suitably wetted before application.
Do not apply on highly deformable and flexible substrates. Always check complete adherence of the substrate to the layers underneath the application surfaces.
For correct application, please see the technical documents for each individual product described above.

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Mixing and application

Pour the contents of a sack into a bucket containing the amount of clean water specified in the technical data and mix by hand or using a mechanical stirrer at low speed for no longer than 3 minutes, until obtaining a uniform, smooth and thixotropic mixture. Smooth off the surface using a metal trowel, then spread the mixture until reaching the desired thickness (maximum 30 mm). For applications exceeding 30 mm, wait until previous coats have completely hardened. In the event of evident discontinuities on the surface (considerable differences in thickness), or substrates subject to dimensional variations due to temperature or humidity, embed alkali resistant fibreglass mesh, such as FASSANET 160, in the first coat.
For applications on poorly-absorbent substrates or subject to high stress, it is recommended to mix GAPER 3.30 with AG 15 latex diluted 1:3 with water (one part latex and three parts water), to improve the adhesion and mechanical strength of the product.
For applications on completely non-absorbent substrates, such as ceramic floor tiles, after an adequate mechanical/chemical preparation cycle to roughen the surface and remove any contaminants, followed by careful cleaning, use the FASSA EPOXY 400 chemical while the underlying material is still wet.
Application is completed by the levelling the surface with a screed and floating with a plastic trowel in order to compact the product.

Warnings

- Product for professional use.
- Always consult the safety data sheet before use.
- Avoid freezing and quick drying of the fresh grout. As the hardening depends on the hydraulic setting of the cement, a temperature of +5°C is suggested as a minimum value for application and for obtaining proper hardening of the product. Below this value, setting would be delayed excessively and below 0°C the fresh or partially hardened mortar could be broken up by frost.
- Do not use on gypsum or anhydrite substrates.
- Paint and coatings must only be applied after the product has completely dried and cured.

GAPER 3.30 must only be used in its original state, without the addition of other materials except, in cases where specified, for latex AG 15.

Storage

Keep dry for a period not exceeding 12 months. Once the product has expired, it must be disposed of in accordance with current legislation.

Quality

GAPER 3.30 is subjected to accurate and constant checks in our laboratories. The raw materials used are rigorously selected and controlled.

Technical Data

Specific gravity of the powder	approx. 1,400 kg/m³
Granulometry	<0.6mm
Yield	approx. 1.3 kg/m² per mm of thickness
Mixing water	22-24%
Mix working time	approx. 90 minutes
Setting time at 20°C	approx. 5 hours
Application temperature	from +5°C to +35°C
Recycled/recovered/by-product content	The product contains some recycled/recovered/by-product. The relevant declaration is available on request.

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Environmental sustainability certifications and protocols	
LEED V4.1 protocol	MR Credit – Construction and Demolition Waste Management
	EQ Credit – Low-Emitting Materials
	EQ Credit – Construction Indoor Air Quality Management Plan
BREEAM protocol	HEA 02 – Indoor Air Quality
WELL v2 protocol	X01 – Material Restrictions
	X06 – Voc Restrictions

Performance in accordance with EN 1504-3 CLASS R2 and EN 998-1 GP-CSIV-W1

The performance characteristics specified below are obtained by mixing the product with 23% water.

Technical features	Test method	Product performance	Requirement of standard
Flexural strength after 28 days	EN 12190	> 5 N/mm²	No requirement
Compressive strength after 28 days	EN 12190	> 15 N/mm²	≥ 15 N/mm²
Compressive strength after 28 days	EN 1015-11	> 15 N/mm²	≥ 6 N/mm²
Secant elasticity modulus	EN 13412	> 12,000 N/mm²	No requirement
Adhesion to concrete after 28 days	EN 1542	> 1 N/mm²	> 0.8 N/mm²
Water vapour diffusion resistance factor	EN 1015-19	μ ≤ 35 (tabulated value)	No requirement
Capillary water absorption coefficient	EN 1015-18	W1 c ≤ 0.4 kg/m²·min$^{0.5}$	W1 c ≤ 0.4 kg/m²·min$^{0.5}$
Chloride content	EN 1015-17	< 0.02%	≤ 0.05%
Thermal conductivity coefficient	EN 1745	λ = 0.67 W/m·K (tabulated value)	λ = 0.67 W/m·K (tabulated value)

Environmental sustainability certifications and protocols	
GEV Classification	GEV EMICODE EC 1^{Plus} - very low emission

The above information refers to laboratory testing; it is possible that in practical applications on site these may differ considerably according to the conditions in which the material is applied. In any case the user must check that the product is suitable for the intended application, taking all responsibility for its use. Fassa reserves the right to make technical modifications without notice.

Technical specifications regarding the use of Fassa Bortolo products for structural or fire prevention applications will only be officially valid if provided by Fassa Bortolo's "Technical Service" and "Research, Development and Quality System". If necessary, contact Technical Service in your country of reference (IT: area.tecnica@fassabortolo.com, ES: asistencia.tecnica@fassabortolo.com, PT: assistencia.tecnica@fassabortolo.com, FR: bureau.technique@fassabortolo.fr, UK: technical.assistance@fassabortolo.com).

Please note that for the aforementioned products, the assessment is required by the appointed professional, in accordance with regulations in force.

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