



POLPO for BUILDING CHEMICALS & TECHNOLOGIES

PRODUCT DATA SHEET

ULTRA GRAUT® Premium cement mortar

DESCRIPTION

ULTRA GRAUT is a high strength, shrinkage compensated, self-leveling, pre-mixed cementitious grouting mortar with extended working time to suit local ambient temperature. Complies to EN 1504-6.

USES

- Machine foundations and base plates
- Rail beds
- Columns in precast construction anchor bolts
- Filling cavities, voids, gaps and recesses
- Post fixings

CHARACTERISTICS / ADVANTAGES

- Easy to use (ready to mix powder)
- Excellent flowability
- Good dimensional stability
- High strength, adjustable consistency
- Non-corrosive
- No segregation or bleeding
- Economical

PRODUCT INFORMATION

Packaging	25 kg bags
Appearance / Colour	Grey powder
Shelf Life	12 months when unopened.
Storage Conditions	Store properly in dry conditions in undamaged and unopened original sealed packaging. Store out of direct sunlight and protect from rainfall. Avoid compaction.
Density	~1.88 - 2.16 kg/l (fresh density)
Bulk Density	~ 1.42 kg/l

25KG



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APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surface should be clean, sound and free from oil, grease, laitance, and loose particles. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease. Absorbent substrates must be saturated thoroughly but with no standing water.

MIXING

Pour the water in the recommended proportion into a suitable mixing container. While stirring slowly, add the powder to the water. Mix with low speed (< 500 rpm) hand drill mixer to avoid entraining too much air. Mix thoroughly at least for 3 minutes until homogenous with no lumps. Mix only full bags for best results.

COMPRESSIVE STRENGTH & MIXING DATA

Water Ratio per 25kg ULTRA GRAUT 218 bag

Consistency	Water Ratio (L/25kg)	Flow (mm)	1 Day (MPa)	7 Days (MPa)	28 Days (MPa)	Standard
Flowable	3.8 - 4.0	280 - 300 mm	> 15 - 18	> 35 - 40	> 50 - 57	ASTM C109
Pourable	3.5 - 3.7	230 - 260 mm	> 22 - 25	> 45 - 50	> 53 - 60	ASTM C109
Stiff	3.0 - 3.4	90 - 110 mm (24 strokes)	> 32 - 35	> 48 - 53	> 54 - 61	ASTM C109

APPLICATION

Stand the grout for ~1-2 minutes; stir with a trowel and then pour into the prepared openings. When carrying out baseplate grouting, ensure sufficient head of pressure is maintained to keep mortar flow uninterrupted. Make sure necessary formwork is firmly in place and watertight.

CURING TREATMENT

Protect the fresh material from premature drying using an appropriate curing method e.g. curing compound, moist geotextile membrane etc.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened mortar can only be mechanically removed.

LIMITATIONS

- Not to be used as an overlay in unconfined spaces
- Avoid application in direct sun and/or strong wind
- Do not add water over recommended dosage
- Apply only to sound, prepared substrate
- Do not add additional water after application as this may cause cracking
- Keep exposed surfaces to a minimum
- Do not vibrate

BASIS OF PRODUCT DATA

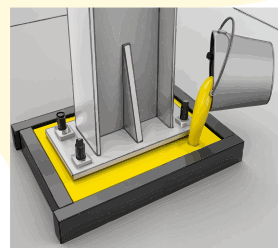
All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, age and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.



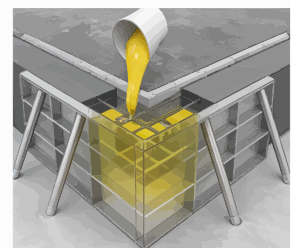
UNDER GROUTING BASE PLATES



FILLING JOINTS IN PRECAST CONCRETE



FILLING AND SEALING CAVITIES



CONCRETE REPAIRS

ULTRA GRAUT® Premium cement mortar

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APPLICATION INFORMATION

Consumption	As a guide, ~25 kg of powder per 12 mm thickness for each m ²
Layer Thickness	Minimum Gap - 10 mm / Maximum Gap - 100 mm
Ambient Air Temperature	+10°C min. / +35°C max.
Substrate Temperature	+5°C min. / +35°C max.
Pot Life	~40 minutes at 20 °C



Storage and expiration

12 month from the date of manufacture, in its original closed packaging, stored away from humidity.

WARNING

- Keep the product out of the reach of children
- Empty container is not suitable for food
- In case of contact with eyes, wash immediately with water
- Use in well-ventilated areas

