

GROUT RPD

RAPID SETTING GROUT MORTAR



DESCRIPTION

- Cement-based, high adherence and strength, fluid, non-shrinking, fast setting grout mortar.

INTENDED USES

- Interior and exterior surfaces,
- In the assembly of prefabricated concrete building elements,
- Fixing of all kinds of industrial machines,
- Field concretes,
- Fixing steel columns to the foundation,
- Fixing of generators, compressors and pumps,
- Used in filling concrete cracks and cavities.

PROPERTIES

- Fluid feature, easy to apply.
- Has high compressive strength.
- Adheres perfectly to concrete and iron.
- Can be used everywhere as it does not shrink.
- Has waterproof feature.
- Resistant to carbonation. It increases the life of the building by protecting it from corrosion and the carbon dioxide gas in the atmosphere.
- Resistant to freeze-thaw cycle.
- Dries very quickly. It completes its drying in 5 minutes. It can be opened to light pedestrian traffic after 1 hour.

SURFACE TREATMENT

- The surface must be clean, dry, smooth and solid.
- The surface must be free of residues such as oil, dirt, paint that will prevent adhesion.
- Care must be taken to ensure that the moulds on which **GROUT RPD** will be applied are solid and without gaps.

APPLICATION

- Slowly pour 25 kg of **GROUT RPD** into 3.0-4.0 litres of water slowly and mix with a rotating mixer until a homogeneous mixture is obtained. Mixing water should be 20°C-25°C.
- Mixing time should not exceed 3 minutes as the product dries very quickly.
- Any additives not specified in the application instructions should not be added.
- It dries in 5-10 minutes depending on the ambient conditions.
- Water should not be added to the mortar that is hardening.
- The prepared mortar should be poured into moulds without waiting.
- During the application, there should not be any air bubbles in the product, otherwise air bubbles will prevent the surface contact, thus reducing the adhesion force.
- The prepared mortar must be consumed within 5 minutes.

TECHNICAL DATA

Appearance	Grey powder
Application temperature	(+5°C) - (+30°C)
Temperature resistance	(-30°C) - (+80°C)
Application thickness	10-60 mm
Initial dry	5 minutes
Time required for foot traffic	1-2 hours
Full curing time	28 days
Standard class	R4
Cavity unit volume mass	2250±110 kg/m ³
Grain size	≤3 mm
Compressive strength	30th minute ≥17 N/mm ²
	60th minute ≥24 N/mm ²
	24 hours ≥32 N/mm ²
	28th day ≥52 N/mm ²
Flexural strength	30th minute ≥3.5 N/mm ²
	60th minute ≥4.9 N/mm ²
	24 hours ≥5.0 N/mm ²
	28th day ≥8.8 N/mm ²
Capillary water absorption resistance (EN 13057)	≤0.5 kg/m ² .h ^{0.5}
Abrasion resistance (TS EN 12808-2)	≤ 120 mm ³
Bond strength formed by adhesion	≥2.0 N/mm ²

- These values are obtained under laboratory conditions ((23±2) °C temperature, 50% relative humidity) and may differ due to worksite conditions.
- **MYFIX YILDIZ YAPI KİMYASALLARI SANAYİ VE TİCARET LİMİTED ŞİRKETİ** is not responsible for the application errors that may arise if the application conditions and precautions outlined above are not followed for the purpose of the product.

WARNINGS AND RECOMMENDATIONS

- The application surface should be moisturised.
- It is not suitable to apply on surfaces exposed to direct sunlight.
- Application moulds should be chosen from materials that will not absorb the water of **GROUT RPD**'s.
- Since it dries between 5-10 minutes, it should be prepared based on this time.
- Do not breathe the powder or contact with skin or eyes as it is cement-based.
- After application, hands and applications tools should be thoroughly washed with water.
- Application thickness should be minimum 10 mm and maximum 60 mm.
- During the application, the ground should be protected from wind and direct sunlight.
- In order to prevent premature drying after the application, the surface is cured with **CURE Curing material**.
- At high temperatures, the workability time is shortened, and it is extended at low temperatures.
- The indicated consumption amount is general information and may differ due to application conditions and surface features.

CONSUMPTION

- 2.1 kg/m² (for 1 mm thickness)

Yıldız Yapı Kimyasalları San. ve Tic. Ltd. Şti.

KOCAELİ KOBİ Organize Sanayi Bölgesi 18. Cadde No: 22 Köşeler - Dilovası / KOCAELİ / TURKEY

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GROUT RPD

RAPID SETTING GROUT MORTAR



PACKAGING

- 25 kg Kraft bag (Pallet 64 bag, 1600 kg)

SHELF LIFE

- Shelf life of an unopened package stored in a dry, cool place is 6 months from the date of manufacture.

COMPLEMENTARY PRODUCT(s)

- CURE Curing material

QUALITY CERTIFICATES

- Resistance to carbonation (EN 1504-3) - Turkish Ready Mixed Concrete Association - Test report-2019

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2163-CPR-0561 TS EN 1504-3 GROUT RPD / RAPID SETTING GROUT MORTAR R4 CLASS	
Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 3: Structural and non-structural repair Principle 3: Renewal of concrete, Method 3.2 Re-casting of concrete Principle 4: Structural reinforcement, Method 4.4 Mortar or concrete addition Principle 7: Corrosion prevention or correction, Method 7.1 Increasing the concrete coating thickness with mortar or concrete structural, Method 7.2 Decayed concrete's renewal	
Compressive strength	: 7-8 ≥45 MPa
Chloride ion content	: ≤0.05%
Bond formed by adhesion	: ≥2.0 MPa
Limited shrinkage / expansion	: ≥2.0 MPa
Elasticity module	: ≥20 GPa
Resistance to carbonation	: Acceptable.
Fire reaction class	: A1

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