

YAPIFINE SECURE[®] FAST

Rapid Setting Non-Shrink Grout Mortar



EN 1504-3



Product Definition

Cement based, single component, rapid setting, non-shrinking, fluid grout mortar with high adherence and strength.

Areas of Use

- Elevation, repair and assembly of manhole covers,
- Assembly of kerbs and paving stones,
- Applications requiring high strength and short time for operation,
- Assembly of prefabricated concrete construction elements,
- Repair of concrete subject to traffic,
- Fixing materials such as traffic signs, billboards and lighting poles,
- Fixing any kind of industrial machinery,
- Any kind of anchorage, assembly and concrete repair.

Advantages

- Easy to apply.
- Thanks to fluid structure, settles automatically and easily penetrates into void and cracks.
- High compressive strength.
- Perfect adherence to concrete, iron and steel.
- Gains strength very fast.
- Not affected by humidity due to metal-free content.
- Resistant to freeze and thaw.
- Can bear normal traffic load within 1 hour after application.

Technical Specifications

Appearance	Grey powder
Pot Life	max. 2.5 minutes
Application Temperature	Between +5°C and +30°C
Service Temperature	-30°C /+80°C
Application Thickness	max. 40 mm per layer
Setting Time	~ 5 minutes
Time Before Use	1 day
Restrained Shrinkage / Expansion	≥ 2 N/mm ²
Elastic Modulus	> 20 Gpa

Capillary Water Absorption	≤ 0.5 kg/(m ² .h ^{0.5})	
Compressive Strength	1 hour	≥ 16 N/mm ²
	24 hours	≥ 35 N/mm ²
	28 days	≥ 65 N/mm ²
Flexural Strength (28 days)	≥ 7 N/mm ²	
Adhesive Strength (28 days)	≥ 2 N/mm ²	
Chloride Ion Content	≤ % 0.05	
Reaction to Fire	A1	

* Hereby technical values and product application instructions are obtained in the wake of tests conducted in environment of +23±2°C temperature with relative humidity of %50±5. Higher temperatures will shorten the time span, while lower temperatures will extend it.



Packaging

25 kg kraft bag



Consumption

About 21 kg/m² for 10 mm thickness

Surface Preparation

The surface should be cleaned of all residual materials such as dust, oil, dirt, paint, curing materials, bitumen and other foreign substances that would prevent adhesion.

The plaster and weak particles that do not adhere to the surface well enough should be removed from the surface prior to the application.

For applications with mould, make sure the moulds are clean and impermeable, before fixing them as required.

If there is water leakage in application area, the leakage should be drained by means of appropriate stopper.

Highly absorptive surfaces should be waterlogged prior to application. Make sure there is no puddle on surface.

Mixture Preparation

25 kg of YAPIFINE SECURE FAST is slowly poured into 3-4 liters of clean water. The water should have a temperature of 20-25°C. Preferably with a low speed mixer, it is mixed with the water until a homogeneous mixture is obtained.

According to the ambient conditions, it might take 5 to 10 minutes for the mixture to set.

Application Information

The prepared mortar should be poured into the molds without delay, just enough to create a thickness of between 10mm and 40mm. In order to prevent air from getting trapped inside, the mortar should be poured into the mold from one side and without interruption.

During the application there should not be any air bubbles inside the product. Since the air bubbles would inhibit the surface adhesion of the product they would reduce the adhesion strength. In such cases, the placement of the mortar should be done with a steel stick.

Resting time between layers is 3 hours. Second layer is applied only after the first layer is finished drying/setting. The prepared mortar should be used within 2.5 minutes.

Application Conditions

Should not be applied to surfaces that were exposed to

sunlight for too long or to surfaces that are too hot or frozen.

Should not be applied when the ambient temperature is not within the values of +5°C and +30°C.

The application area should be protected from the effects of wind and direct sunlight.

The mortar should not be subject to vibration until it sets. Moulds can be removed after 1-2 hours.

Wait the mortar to harden completely before the assembled machines are started and application areas are opened to traffic.

The final consumption amount might vary depending on application conditions and surface characteristics.

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Shelf Life

The shelf life of the product is 6 months when it is stored on wooden pallets in a cool, dry and moisture free environment with an ambient temperature between +10°C and +25°C.

Safety Precautions

The operator should be wearing proper work attire, goggles, mask and protective gloves appropriate to work and worker safety regulations.

In case of contact with the eyes or accidental ingestion of the product seek immediate medical attention.

Rinse with plenty of water in case of contact with the skin.

Since it's cement based, do not breathe.

For further information on the safe handling of this product please read the Safety Data Sheet (SDS).