



Roka Epo Grout 1000

Three Component, Epoxy Based Flowable Grout

Roka Epo Grout 1000 is a three-component, solvent free, shrinkage free, self levelling, flowable grout comprising of high strength epoxy resins and specially graded aggregates.

Uses & Advantages:

- Suitable for both dry and damp substrates.
- Rapid hardening.
- High mechanical strength.
- Excellent resistance to creep and cracking even at high temperatures up to 150°C.
- Resistant to oil, synthetic lubricants & many other chemicals.
- Impermeable to moisture.
- Curing is not affected by high humidity.
- Solvent free.

Fields of Application:

- Fixing of anchors, rails, and starter bars.
- Mechanical bridge joints.
- Bridge bearing plates.



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- Pile head treatment.
- Filling cavities, tile gaps and repairing/stabilizing horizontal construction joint and cracks.
- Equipment where chemical and acid spillages occur.

Technical Information:

Chemical Base	Epoxy resins and specially graded aggregates
Component	A(Base) + B(Hardener) + C (Filler)
Density	2000 kg/m ²
Pot life	50 minutes at 25°C
Substrate Temperature	Minimum: 5°C Maximum: 40°C, depending on thickness & thermal insulation effects.
Thickness per Layer	Minimum: 4 mm Maximum: 60 mm
Tensile Strength	14 MPa
Flexural Strength	29.50/mm ²
Adhesive Strength	>290 psi
Elastic Modulus (static) at 7 days	13 N/mm ²
Effective Bearing Area	95% minimum
Co-efficient of thermal expansion	5.65 x 10 ⁻⁵ /°C



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Compressive strength at 25°C	1 day: 60 MPa 7 days: 110 MPa
Impact Strength	Superior to concrete
Abrasion resistance	Greater than concrete
Packaging	20 kg
Shelf life	12 months if kept in recommended conditions
Storage	Store in a dry area, in unopened and undamaged packaging, between 5°C and 35°C and away from direct sunlight.

Surface Preparation:

Before the application, the concrete must be at least 3 weeks old with a minimum compressive strength of 25MPa. Base plates and substrates must be shaded from direct sunlight, especially during high temperatures. All the concrete surfaces must be sound, clean and free from any contaminants like oils, grease, curing compounds and other loosely adhering particles. Metal surfaces should (steel and iron) should be free from scale, rust, oil & grease.

If the unit to be grouted does not form a natural shutter, a water-tight shutter will have to be provided to retain the epoxy mortar until it has set.



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Mixing:

During high temperatures, materials must be conditioned at a temperature $< 25^{\circ}\text{C}$ before mixing. Using a slow speed electric drill, mix the base and hardener for at least one minute. Slowly add the aggregates and continue mixing for around 3 minutes or until a homogenous flowable mortar is achieved. Allow the mixed material to stand for at least 3 minutes to allow the entrapped air to escape.

Application:

Pour the mixed material into the prepared area in such a manner that it has the shortest distance to flow to avoid air entrapment. When grouting under bearing plates etc., ensure there is sufficient pressure to maintain movement of the grout.

For large volumes, apply in more than one layer, ensuring that the previous layer has been hardened and cooled.

Cleaning:

All the tools and equipment must be cleaned with Roka Thinner or Xylene immediately after use. Hardened materials can only be removed mechanically.

Curing:

Protect from direct sunshine for at least 24 hours.



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Health and Safety:

Read product and safety data sheets and container labels for safe use, physical and health hazard information.

Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.

All products are sold under our standard conditions of sale, which are available upon request. Any field services offered do not imply supervisory responsibility. For further information, please contact your local representative of Roka Chem Solutions.



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