

ADMIX GE541

High Strength Epoxy Based Grout Mortar

ADMIX GE541 is a three-component product based on special selected epoxy, comprising of base epoxy, reactor and specially graded aggregates. By mixing three components at job site, a workable, free flow and solvent free grout is obtained. The product withstands static and dynamic loads without cracking or segregation. It is suitable for application thickness range of 60 to 120 mm.

Applications

Due to very good mechanical properties of **ADMIX GE541**, it can be used for fixing crane and transporter rails, installation of industrial machineries subjected to static and dynamic loads, fixing steel or rubber-based bridge bearings and joint shields, to screed surfaces in which acid or chemicals spillage may occurs, filling base plates underlay or concrete holes and cavities, steel bar anchorage and pile capping.

Advantages

- No priming required.
- Excellent flow characteristics.
- High tensile, flexural and compressive strength.
- Excellent adhesion to steel and concrete.
- Rapid strength gain, and high resistance to dynamic loads and chemical attack.
- It is shrinkage compensated and does not crack.
- Tolerates damp surfaces.

Properties

Density @ 25°C	Approx. 2.0 g/cm ³ (mixed)
Bonding strength	> 2.5 MPa (Concrete failure)
Compressive strength	Approx. 98 MPa (7 days)
Tensile strength	Approx. 13 MPa (7 days)
Flexural strength	Approx. 26 MPa (7 days)
Pot life	70 min. (25 °C)



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	40 min. (40 °C)
Full cure	7 days (25 °C)
	3 days (40 °C)

Application method

Surface preparation

Concrete surfaces should be sound, stable, clean and free from loose laitance, paint, oil, grease and residual curing membrane which may cause debonding. Rough surfaces are preferable. Metal surfaces should be free from any rust, contamination or paint. Formwork (if used) should be wrapped in polythene sheet to ensure a clean release.

Mixing

Do not split packs or alter the ratio of components in any way. The amounts are accurately pre-weighted to meet stated mechanical properties. Mix with a slow speed mixer. Add total contents of the reactor container to the base component and mix them for one minute. Add powder component slowly and continue mixing to obtain a uniform free flow mortar to be used. It is noted that mixing for too long can entrain air.

Placing

Place immediately after mixing into the prepared area in such a manner that it has the shortest distance to flow. For long pours a suitable head of pressure may be required. Ensure the area to be grouted is not completely sealed and any displaced air can be expelled. Pour the grout continuously from one side only. Allow the grout to set prior to removal of formwork (normally after 6 hours). Where placement exceeds depths of 120mm, application should be carried out in layers. The second layer should be applied after at least 6 hours.

Dosages

Proper dosage can be determined by trials for each project and can't be generalized to other projects. Tested dosage is between 2 to 7 percent of cementitious materials depending on expected setting time, type of cement and water cement ratio.



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Chemical resistance

ADMIX GE541 resists to the most common corrosive chemicals such as dilute and concentrated alkalis, most dilute acids, mineral oils and petrol, ammonia, formaldehyde, salty solutions, vegetable and animal fats.

Packaging

ADMIX GE541 is supplied in 20 kg total packaging which yields 10 liters.

Storage

This product must be stored in original containers under cover, out of direct sunlight and protect from extremes of temperature. Fair ventilation is necessary in hot climate. Shelf life is 12 months if stored in suitable condition.

Safety awareness

Like other chemical products, **ADMIX GE541** may cause irritation. Use personal safety devices while using this material. In case of any contact or splashing to eyes or skin, wash it with clean water for at least 15 minutes and get medical helps. For more information about safety, please read product material safety data sheet.

Equipment carefulness

Wash and clean the equipment with suitable solvents after completion of each phase of application or before break times.

Quality approval

All materials produced in **White Damavand** Co. are under strict control of QC department and meet the requirements of international standards.

Supplementary data

For any additional information, please contact company's specialists.

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