

High strength, Non-shrink Cementitious Grout

CemGrout 920[®]



Description

The **CemGrout 920[®]** is a ready - to use cementitious mix requiring only the addition of water to produce high strength non-shrink grout of predictable performance.

Key Features

CemGrout 920[®] is designed for use under steel baseplates of all types to provide precision support and bearing capacity.

CemGrout 920[®] is high early strength and long term durability grout with minimum water content required.

- Expanding Cementitious Grouting Mortar.
- High early strength.
- Very good adhesion to most construction materials.
- High bond strength to steel and concrete.
- Durable and hardwearing.
- Easy to apply.
- Excellent resistance to a wide range of chemicals.
- Non-bleeding and non-segregating for maximum uniformity.
- Good for both inside and outside applications.
- Non-corrosive ingredients protect steel plates and anchors.
- Chloride free.
- Non-toxic.
- Good flow characteristics.
- Self-compacting.
- nonmetallic grout.



Application Instructions

Surface Preparation: All loose particles, laitance, dust and grease etc., must be removed prior to application of **CemGrout 920[®]**. Concrete must be at least 4 - 6 weeks old, depending on climate, wire-brush, sand-or water-blasted or grind substrates.

Mixing: The Quantity of water required to achieve the desired consistency is (2,7 Ltr to 3 Ltr).

Application: Slowly add the powder to the water and mix mechanically with a slow speed drill (max. 500 rpm) at least 2 min to get a homogeneous form.

To avoid the air entrance, the grout is allowed to casting from one side.

Place the mixed grout within 3 - 5 minutes after mixing to release the air bubbles.

Curing: The curing should be started after 30 min of the casting using wetted canvas by clean water for 24 hours and then continue curing for the required strengths by using curing compounds or any approved curing methods.

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Technical Properties & Standards

Density	2.2 g/cm ³ (of the fresh mortar) at 20° C ASTM 1475	
Compressive Strength	at +25C ASTM C-579-18	
	(3 days)	36 N/mm ²
	(7 days)	45.8 N/mm ²
	(28 days)	51.2 N/mm ²
Tensile strength	after 10 days at +10-20°C 30 - 40 N/mm ²	
Shear Strength	after 7 days ASTM D4145	
	Bond strength to concrete	3.2 N/mm ²
	Bond strength to steel(plain bars)	4.4 N/mm ²
Modulus of Elasticity in Tension	>30 Mpa at 7 days	
Coefficient of Thermal Expansion	25 x 10 ⁻⁶ per °C (temp. range: 20 °C)	

Application Properties

Mixing Ratio	2.25 : 2.75 Lt(of water)/25Kg
Product Information	
Colour	gray
Base	Cement, selected fillers and aggregates, special additives
Packaging	25 kg bags

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Cleaning Tools

Tools and equipment should be cleaned, immediately after use, with **iSolv S40[®]**. After the hardening, the product can be removed only by mechanical means.

Quality

All products manufactured by iChemEG, or imported from iChemEG affiliate companies worldwide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems.

Storage

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

Shelf Life

Shelf life is up to 12 months when stored as per recommendations.

Health & safety

- PPE in accordance with the health and safety rules should be used during the materials application.
- For irritant effects of the non-cured material, avoid contact with skin and eyes during storage and application.
- If the contamination occurs, wash the contaminated part by soap and plenty of water so urgently contact to nearest hospital.
- Food and drink should be kept outside the application areas and should be kept in closed area.
- For further information refer to the iChem material safety data sheet.

Technical Data Sheet - January 2024, Version 1.1.5

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