



JAZEGROUT - CS

Sulphate-resisting, Low Heat of hydration, High Performance, Non-shrink, Dual Expansion, Free- flowing Cementitious Grout

Product Description

JAZEGROUT-CS is ready-to-use sulphate – resisting, high performance, low heat of hydration, non-oxidized, dual expansion, cementitious grout which requires only the addition of water to produce non-shrink flowable mortar. It contains Sulphate Resisting Portland cement, special aggregates, and shrinkage -compensating materials that work during plastic status and post hardening, fibers, and modifiers that permit to be applied in an ordinary and high thickness by pouring or pumping without any problems.

Uses

JAZEGROUT- CS is formulated to be used as sulphate resisting, non-shrink, high strength cementitious grout for fluid to flowable consistency in:

- Grouting areas subjected to saltwater exposure.
- Grouting under machinery & equipments where the need to resist saltwater is required.
- Pre-cast concrete elements.
- Grouting under general structural support.
- Support of tanks and vessels.
- Anchor bolts, Crain rails and milling machine.
- Concrete repairs & floor patching where the need to resist saltwater and water-soluble salts & highly flowable replacement material is recommended.
- Filling of voids & holes between new and old concrete especially in sewage works.

Advantages

- Easy to mix and to apply.
- Non-oxidized & non-shrink.
- > 95 % Effective Bearing Area (EFA).
- Saltwater & water –borne salts resistance.
- Low heat of hydration.
- Fiber reinforced no risk for cracking.
- Adjustable consistency can be applied by pouring or pumping.
- It contains micro silica enhanced for strength and durability.
- Low permeability ensuring durability.
- Chloride & nitrate free, non-toxic and does not contain any harmful ingredients.
- High mechanical properties and high early and ultimate strengths.
- High bond strength to concrete and steel.
- Formulated for the Middle East Climates.

Standards

JAZEGROUT- CS is formulated to comply with all requirements of ASTM C-1107: "Packaged Dry, Hydraulic – Cement Grout (Non-shrink)" Grade C as well as CRD C- 621



Technical Properties

Appearance	Grey free flowing powder	
Mixing Water / 25-Kg	<u>Fluid</u>	<u>Flowable</u>
	4.00 Liters	3.750-Liters
Yield (Liters)	13.2	13
Specific Gravity @20 °C (wet)	2.1 – 2.2.	
Setting Times @ 20 °C	Initial: 4-hours and final is 5-6 hours	
Compressive Strength (N / mm²)	It will influenced with the consistency:	
	<u>Fluid</u>	<u>Flowable</u>
After 24-hours	20	25
After 7-days	55	60
After 28-days	70	75
Flexural Strength (N/mm²)		
After 24-hours	7	9
After 28-days	13	14
Flow properties: CRD C-Cone	19 – 25 seconds for the flowable consistency.	
Expansion Behavior	Dual expansion: during plastic status: it will start after the addition of water and mixing and will continue for 2-hours @ 20 °C as well as it will continue for post hardening expansion	
Expansion after 28-days	0.02 %	
Modulus of Elasticity	> 3300 MPa	
Coefficient of Thermal expansion	11.5 x 10 ⁻⁶ mm / mm per °C.	

Guide for Applications

Surface Preparation

All surfaces shall be sound, clean and free from dust, oil & grease or any contaminants that may affect the bond between the product and substrate. Metal surfaces shall be free from rust & scale and other contaminants. Absorbent surfaces shall be saturated thoroughly.

Mixing

The exact amount of water shall be put in a clean vessel (or mixer) and gradually add the powder while mixing. Continue mixing till homogenous consistency free from lumps is achieved. It is recommended to use an electric drill of maximum 400 – 500 rpm. It is not recommended to mix more than that you can place within 60 minutes. DO NOT RETEPMER to restore workability.

Placement

Pour the mixed materials onto the prepared substrate continuously from one side avoiding air pocket entrapment (allow the air to escape). If base plate grouting is carrying out, ensure adequate head pressure is maintained. Voids should be removed by removed rodding, strapping.

Curing

JAZEGROUT – CS is cementitious grout, ACI recommendations should be followed during mixing, placement or curing. After placement, the grout shall be cured properly for 3-days at least. Our curing range can be used. Protect the placed grout from extreme temperatures.



Cleaning

Clean all tools & equipment with water after finishing the work immediately.

Packaging

JAZEGROUT – CS is supplied in well sealed 25-Kg packs.

Storage & Shelf-life

JAZEGROUT - CS shall be stored in normal conditions away from any extreme temperatures, and any source of moisture. Shelf – life is 12 –months if stored properly in well-sealed containers.

Health & Safety

- JAZEGROUT – CS is non-toxic, non-hazardous during handling, storage and use.
- For Ecology: Do not dispose directly to water or soil, re-use it if possible or mix with water and wait to harden, then bury it in landfill in accordance with the National regulations.
- Splashes on skin will be washed with water and soap.

JCC CONSTRUCTION CHEMICALS

The information herein is general information to assist our customers in determining whether our products are suitable for their specific applications. Our products are intended for sale to commercial and industrial customers. We require that customers should inspect and test our products before use to satisfy themselves as to the content and suitability for the application they intend to use our products for.

JCC endeavors to ensure that any advice, recommendation, specification of information in accurate and correct manner.