



QUICSEAL 512

Product Name

Shrinkage Compensation Grout Admix

Description

QUICSEAL 512 Grout admixture is a free flowing powder comprising of a blend of superplasticiser and expansive agent. When mixed with ordinary Portland cement, it produces a pumpable and non shrink grout providing high compressive and flexural strength.

Advantages

- Gaseous expansion system providing positive expansion
- High fluidity for easy placement
- Reduced water/powder ratio, thus providing high strength and durability
- Chloride free composition and therefore delivers high early strength development
- Improves cohesiveness and reduce bleeding and segregation
- Aggregate free
- Does not contain iron which may cause staining

Uses

QUICSEAL 512 is used in the following applications:

- Duct grouting
- Non shrink void filling
- Pumping through small openings

Surface Preparation

All surfaces must be clean and sound and free from all surface laitance, oil and grease. All defective concrete should be removed till sound concrete is detected. The area must be pre-saturated with water before grouting.

Application

Sufficient labour and materials should be worked out and prepared prior to installation of QUICSEAL 512.

Place the specified quantity of water into the mechanically powered grout mixer. Slowly add the cement (and sand if required) into the mixer and ensure continuous mixing for at least 5 minutes until a smooth, even consistency is achieved.

Accurate and consistent mixing duration is recommended for each operation to obtain desired results. Note that the amount of water must be predetermined to the particular application prior to mixing to ensure no bleeding. Excessive water may render lower performance of the non-shrink grout.

Place the grout within 20 minutes after mixing to gain the full benefit of the expansion process. Continuous grout flow is essential & sufficient grout and material should be available to ensure continuity in the grouting operation.

Curing

On completion of the grouting operation, exposed areas should be thoroughly cured by means of QUICSEAL curing membrane, continuous application of water and/or wet hessian.

Typical Properties of QUICSEAL 512

Characteristics	QUICSEAL 512
1. Wet Density of mixture	1.90 – 2.00
2. Compressive strength (ASTM C942) 7 days 28 days	> 21 N/mm ² > 35 N/mm ²
2. Flow Consistency (ASTM C939)	11 - 30 seconds
3. Setting Time (ASTM C953) Initial (hr) Final (hr)	> 3 hrs < 10 hrs
4. Chloride content (ASTM C1152)	< 0.08% by wt
5. Working temperature	+5° to + 35°C
6. Expansion Characteristics (ASTM C940)	A positive expansion of up to 4%

Cleaning

Clean all tools and equipment with water immediately after grouting operation. Hardened mortar can only be mechanically removed.

Packaging

QUICSEAL 512 is supplied in 227g sachets

Storage

Store in a sheltered, cool, dry place, protected from rain and sunlight and extreme temperatures.

QUICSEAL 512 has a shelf life of 6 months when stored as stated in its original packaging.

Coverage / Yield

1 bag of 227 g QUICSEAL 512 will yield 36-37L of grout when mixed

Weight of cement	Required Volume of water	Yield
50kg	20 – 22.5 litres	36 - 37 litres

Health & Safety

QUICSEAL 512 is not hazardous, but it is alkaline in nature. Protective clothing, filter mask and gloves should be worn during the grouting process. Refer to SDS for more information

Precautions:

- When duct temperatures are above 35 deg C, cool the cement and Grout Admix by storing in a cool area. Use cold clean water for mixing.
- Do not use excessive mixing water or at a temperature that will cause the mixed grout to bleed or segregate

Important Notes

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