QUICSEAL 513

Non-Shrink Grout GP

Premixed cementitious grout - Economical and easy to use

Non-corrosive - No corrosion to rebar, staining or deterioration due to rust expansion

Chloride free composition allows high early strength development without the use of chlorides

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QUICSEAL 513

Non-Shrink Grout GP

DESCRIPTION

QUICSEAL 513 Grout is a supplied as ready to use cementitious non-shrink grout specially formulated to suit various purposes. QUICSEAL 513 is non-metallic and chloride free and is easy to use, requiring addition of water to produce a non shrink patching and leveling compound.

USES

QUICSEAL 513 can be used in dry packed consistency states in the following applications:

- Bedding base plates
- Precast applications – bedding precast units such as walls, slabs and refuse chutes and filling of precast joints and gaps.
- Patching of honeycombs
- General repairs to concrete structures

APPLICATION

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 substrate should be fully dampened with water or primed with or adhesive slurry. Ensure no free water prior to grout placement.

MIXING

Place specified amount of water into a clean container. Slowly add the contents of QUICSEAL 513 (powder) and mix with a slow speed drill fitted with a paddle type mixer blade of approximately 3 - 5 minutes until a homogeneous and lump-free consistency is obtained.

PLACING

For horizontal application, apply well-mixed QUICSEAL 513 to the prepared surface at a thickness of 10mm to 40 mm in one layer. For vertical applications, reduce the ratio of water to drier consistency.

For placement of more than 1 layer, the surface of the intermediate layer should be scratch-keyed prior to application of subsequent layers. Application of the next layer may proceed as soon as the previous layer has fully set. Consistent with cementitious toppings, it is essential to allow QUICSEAL 513 to cure naturally in ambient conditions. Protect QUICSEAL 513 against rapid drying due to strong wind and direct sunlight or high temperature by covering with polythene sheet, wet hessian or QUICSEAL 507 Cure-Shield WB curing compound to reduce premature water loss. Apply curing compound only on finished surface but not on intermediate layers.

For flowable and fluid consistency, use QUICSEAL 510.

TECHNICAL DATA

Consistency = Semi-Precast (Non-Shrink Grout for Semi-Precast Construction)

TESTS / TEST METHOD	HDB'S ACCEPTANCE CRITERIA	SPECIFICATIONS
Flow Consistency ASTM C1437: 2007	30 - 45% Flow	30 - 45%
Compressive Strength ASTM C109/109M: 2008	> 40 N/mm^2	$\geq$ 50 N/mm^2
Volume Change ASTM C827: 2001a	Lower limit = 0.00 Upper limit = +3.00	Lower limit = 0.00 Upper limit = +3.00
Setting Time BS EN 196 Part 3: 2005	Initial setting $\geq$ 1 hr Final setting $\leq$ 4 hrs	Initial setting $\geq$ 1 hr Final setting $\leq$ 4 hrs
Slant Shear Strength at 28 days BS EN 12615: 1999	$\geq$ 1.5 N/mm^2	$\geq$ 1.5 N/mm^2

PACKAGING

QUICSEAL 513 is supplied in 25kg bags.

STORAGE

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

QUICSEAL 513 has a shelf life of 12 months when stored as stated in its original packaging.

COVERAGE / YIELD

Consistency	Required Volume of water	Yield / bag
Semi-Precast (Trowellable)	3.0 – 3.5 litres	12.0 – 13.0 litres

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HEALTH & SAFETY

QUICSEAL 513 is not hazardous, but it is alkaline in nature. Protective clothing, filter mask and glove should be worn during the handling process.

IMPORTANT NOTES

The information set forth herein is furnished free of charge in good faith and is based on technical data that QUICSEAL considers to be reliable. This information is intended for used by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of QUICSEAL products as of the date of publication of this document. QUICSEAL makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, please contact ARDEX-QUICSEAL

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