



PRODUCT DATA SHEET

PRODUCT CODE: C257KT

SUPAGROUT KRYSTAL TECH

Description

SUPAGROUT KT is a non-shrink cementitious grout containing Nano technology to form hydration crystals. These needle-like crystals block the capillary pores and micro-cracks within the mortar to dramatically reduce permeability and water absorption of grout

Principal uses

- Used to reduce permeability of grout
- Void filling in concrete
- Base plates, bearings, columns and crane rails

Advantages

- Improves resistance to cracking
- Improves adhesion
- Self-seals hairline cracks
- Reactivates in the presence of moisture even years later
- Good flow characteristics

Performance data

Property	Typical results		
	24 hours	14 days	28 days
Compressive strength			
Water @ 4ℓ per 25kg	28Mpa	59Mpa	63Mpa
Water @ 4.85ℓ per 25kg	20Mpa	57Mpa	59Mpa

An unrestrained expansion of 1% to 4% is typical

Restrained expansion 0 - 0.4%

Flexural strength @28 days 8.2Mpa

Tensile Strength @ 28 days 4.3Mpa

Workability

The product can be mixed either into a ram-able consistency or flowable depending on the requirements

Surface preparation

Concrete substrate must be structurally sound. Remove all oil, grease, paint, corrosion, dust and surface deposits. This can be done by wire brush or sand blasting. Saturate with clean water prior to applying the grout

Limitations

Do not grout at temperatures below 9°C. Avoid excessive heat 35°C and higher, wet hessian may be used to reduce evaporation rate. Grout cannot be reworked by later addition of water. Ensure Grout remains moist for at least 3-7 days to ensure crystal growth

Mixing instructions

SUPAGROUT KT will require less water than usual. Pre wet concrete mixer, add between 3ℓ and 4ℓ of water into the mixer, depending on the consistency required. Add the contents of the bag and mix until desired slump is achieved

Curing

Proper curing is essential to achieve the benefits and performance of the grout. Wet curing the grout with a fog mist spray, sprinkler or wet burlap for 3 to 7 days is recommended. Protect fresh applications from wind and direct sunlight

Yield

Mixed with 3.5ℓ of water will yield 12ℓ

Mixed with 4.5ℓ of water will yield 14ℓ

Set time

Water content	Initial set	Final set
4ℓ per 25kg	2 hours	3 hours
4.5ℓ per 25kg	2hr35min	4 hours

Packaging

SUPAGROUT KT is available in 25kg bags

Safety & handling

Wear dust masks when mixing. Use gloves, eye protection at all times. Should the product come into contact with eyes, wash immediately and seek medical advice

Shelf Life & Storage

6 months when stored in a cool dry place, failure to comply with these recommendations will result in a reduction in shelf life

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