

Denka Supercement S30 Grout

Ultra-quick hardening cementitious grout

Description

Denka SUPERCEMENT S30 Grout is Ultra-quick hardening non shrink grout. The addition of a controlled amount of clean water produces a free-flowing precision grout. In addition, the low water requirement ensures high early strength and long-term durability. The filler grading minimizes segregation and bleeding over a wide range of application consistencies. Denka SUPERCEMENT S30 Grout is most suitable for emergency works where construction time is limited.

Uses



Repairing for expansion joint of Bridge



Repairing for apron of Airport



Repairing for Tollgate of Highway



Patching by Repair mortar

Advantages

- Easy to mix and apply
- Excellent flow and flow retention
- 30N/mm² compressive strength obtainable in 3 hours.
- High Early Strength enables rapid installation and early operation of road, airport and plant
- Shrinkage compensation and good crack resistance.
- Non-toxic and non-corrosive
- Suitable for pumping or pouring over a large range of application consistencies and temperatures.
- Good cost performance than resin mortar
- It can be applied to wet conditions.

Physical Properties

Compressive Strength, N/mm ² BS EN 12390	Specification	Typical Results
2 hours	-	30.1
3 hours	> 30	38.5
1 day	> 40	53.0
28 days	> 50	76.8
J ₁₄ Flow, sec JSCE F 541	6-12	6.2
Setting Time, min	15-60	30

※30°C Environment

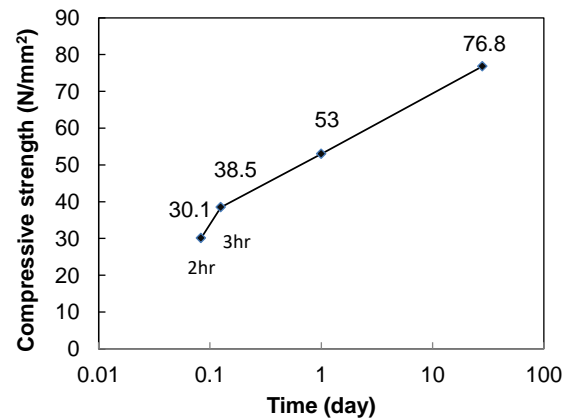


Fig.1 Compressive strength development – Typical Result

Application Instruction

Surface Preparation

Concrete surfaces should be cleaned, sound and free from oil, grease, laitance and loosely adhering particles. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease.

All absorbent surfaces must be well saturated with clean water, but be free of any surface water or puddles prior to the application of **Denka SUPERCEMENT S30 grout**.

Mixing & Yield

The 4.3kg of clean water required to be add to 25kg bag grout to achieve the desired consistency.

Quantity Mixed	Supercement S30 Grout	Water
Per Bag (14.0L)	25 kg	4.3 kg
1m ³	1,775 kg (71 bags)	305.3 kg

Quantity of water can be adjusted between 4.3-4.6kg/bag (305.3-326.6kg/m³)

Mix for 1 to 2 minutes with a slow speed drill (max. 500 RPM)

After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. The grout is then poured immediately into the prepared formwork.

When placing grout over a large area, it is important to maintain a continuous flow throughout. Organize proper work sequence to ensure uninterrupted flow.

For thicker sections which is more than 100mm, it is necessary to fill the **Denka SUPERCEMENT S30 Grout** with graded 10mm silt free aggregates to minimize temperature rise generated during the curing stage.

The quantity of aggregates is generally 10kg per 25kg bags **Denka SUPERCEMENT S30 Grout** by weight. It should not exceed 1-part aggregates to 1 part of **Denka SUPERCEMENT S30 Grout**.

For such mixes, a conventional concrete mixer and pump may be used. To further ensure that air entrapped during mixing allowed to fully escaping, it may be necessary to make breather holes. Use steel rods or chains to assist the flow of grout where necessary.

Level the grout using the trowel for finishing. Carry out curing until a predetermined time. It is recommended to used curing compound (Eg: Estocure R90) during the curing process.

Packing Size

Denka Supercement S30 Grout	25kg/ Bag
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Cleaning

Wash all equipment with water after used.

Technical Support

Denka offers a technical support package to specifiers, end-user and contractors, as well as on site technical assistance.

Storage

Denka Supercement S30 Grout has a shelf life of 6 months in unopened containers, kept in a dry store. In high humidity locations, the shelf life may be reduced.

Precautions

- Refer to the Safety Data Sheet (SDS) before use.
- Use ASAP once mixed as the mixed cement will rapidly harden.
- Wear protective gear (goggles, mask, gloves, and rubber boots) while handling the product. Do not dispose of the product in drains.
- If any part of the body comes into contact with **SUPERCEMENT S30 Grout**, wash copiously with water as it is alkaline.
- Once opened, the product should be used up completely. Otherwise, reseal for storage.
- The product should be stored in a dry area, indoors, and out of direct sunlight.
- For further information, please contact **Denka Construction Solutions Malaysia Sdn Bhd**.

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Additional Information

Denka Construction Solutions Malaysia Sdn Bhd offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.



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