

Denka Cosmic RD-M

Quick hardening cementitious grout for semi-rigid pavement

Description

Denka Cosmic RD-M is a quick hardening cementitious grout for semi-rigid pavement. It has excellent flow, flow retention, and strength development property; enabling rapid installation and early road operation. This material is suitable for flexible asphalt concrete pavement to ensure longer durability of the road.

Uses



Semi-rigid pavement with asphalt

Advantages

- Easy to mix and apply
- Excellent flow and flow retention
- Early setting and strength enable rapid construction and early operation of the road
- Suitable for pumping or pouring over a large range of application consistencies and temperatures
- Good strength development

Physical Properties (30°C)

Flow value by P-Funnel, s ※ASTM C939	10-15
Initial setting, hr ※EN 196-3	< 6
Compressive Strength, N/mm ² 1 days 28 days ※BS EN 12390	> 40 > 90
Flexural Strength at 28 days, MPa ※BS EN 12390	> 6

Application Instruction

1) Standard Mix Ratio

6.6 kg of clean water is required per 20kg bag of Denka Cosmic RD-M to achieve the desired consistency.

	Denka Cosmic RD-M	Water
Plastic Bag	20 kg	6.6 kg
Jumbo Bag	500 kg	165 kg
Unit Amount (m ³)	1594 kg	526 kg

Refer to the mixing ratio guide for water: grout ratio.

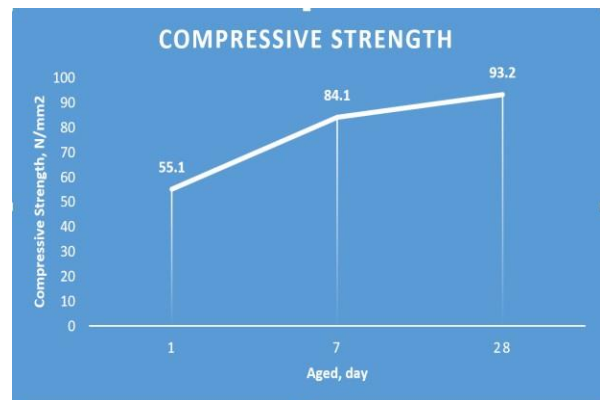
Mix for 1 to 2 minutes with a slow speed drill (max. 500 RPM)

After mixing, stir lightly with a spatula for a few seconds to release any entrapped air.

Pour the grout immediately into the prepared formwork. Level the grout using a trowel for finishing. Carry out curing for a predetermined time.

The use of a curing compound (e.g. Estocure R90) is recommended during the curing process.

Note: During actual work casting due to surrounding temperature etc, there might be a need to adjust the water content, as such it is recommended that the water content to be adjusted between 150kg to 180kg per 500kg Jumbo bag.



*Eg: Compressive strength trend for Denka Cosmic RD-M

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Typical or Recommended Physical Properties of *Semi-Rigid Composite Cleaning

Wash all equipment with water after use.

Technical Support

Denka offers technical support package to specifiers, end- users and contractors, as well as onsite technical assistance.

Storage

Denka Cosmic RD-M has a shelf life of 6 months in unopened containers when kept in a dry store. Shelf life may be reduced in high humidity conditions

Precautions

- Refer to the Safety Data Sheet (SDS) before use.
- Use ASAP after mixing 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 **Denka Cosmic RD-M**, 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.



Denka Construction Solutions Malaysia Sdn Bhd
(591858-U)

No. 18, Jalan Utas 15/7, Seksyen 15,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +603 5510 8810 Fax: +603 5518 8202

www.denka-cs.com

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