

DENKA SUBSHOT MORTAR-S

High Performance Premixed Quick Hardening Spray Mortar for Dry Process

Description

DENKA SUBSHOT MORTAR-S is a pre-mixed sprayed mortar with high early strength, quick setting properties, and dust-suppression functionality; effectively controlling dust emissions and improving construction work environment.

A system equipped with mixing and pumping equipment is required.

DENKA SUBSHOT MORTAR-S can also be used in conjunction with **DENKA NATMIC AF-S** for faster setting and lower dust generation.

Features

- Very high early strength, quick hardening
- Minimized dust generation and rebound
- Excellent compressive strength, bond strength and flexural strength
- Excellent resistance to inflow
- Compact system design and ease of operation
- Applicable for dry shotcreting
- Versatile; can be used as-is or in conjunction with **DENKA NATMIC AF-S**

Applications

- Tunnel linings and slope stabilization
- Repair of tunnels and underside of concrete structures
- Support for small cross-section tunnels
- Reinforcement for unconsolidated ground
- Ground support after TBM excavation

Packaging

- **DENKA SUBSHOT MORTAR-S** : 25kg bag
- **DENKA NATMIC AF-S** (as required) : 260kg drum

Shelf Life

- 6 months from production date
- Determine the production date by reference to the lot number. A lot number of "1AXXX" corresponds to production in Jan 2001; "2BXXX" to Feb 2002 and so on.

Physical Properties

Initial setting (min)	Compressive strength (N/mm ²)	
	12h	Day 28
< 10mins	10 MPa	35 MPa

Mixing Procedures

- Continuous mixing and pumping equipment is required for shotcreting. Mixing time is dependent upon the distance from inlet to nozzle.
- Introduce **DENKA SUBSHOT MORTAR-S** and water at the nozzle for mixing.

Mix Design

DENKA SUBSHOT MORTAR-S	: 25 kg
Water	: 12% ~ 14% (3 ~ 3.50 kg)
DENKA NATMIC AF-S	: 2% ~ 4% (0.5kg ~ 1.0kg)

Spray Placement

Spray continuously and uniformly to the required thickness. Multiple layer spraying is not recommended.

Yield & Coverage

- 13.7 litre per bag (depending on water addition)
 - 0.27m² per bag at 50mm thickness
- Figures above are arbitrary. Actual coverage will depend on site and surface conditions.*

Handling Precautions

- Refer to the Safety Data Sheet (SDS) before use.
- Wear protective gear (goggles, mask, gloves, and rubber boots) while handling the product. Do not dispose of the product in drains.
- 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.

Limitation of Liability

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