

DENKA CHLORE FIX SHOT

Chloride-fixing Cross-Sectional Repair Additive for Shotcrete

Description

DENKA CHLORE FIX SHOT is a chloride-fixing, premixed additive for concrete cross-sectional repair. When mixed with hardening accelerators such as DENKA Technoshot AF just prior to shotcreting, cross-sectional repair with minimized spalling can be achieved. Mass construction at longer pumping distances (compared to standard wet-mix) is also possible due to the high fluidity of **DENKA CHLORE FIX SHOT**. Furthermore, as **DENKA CHLORE FIX SHOT** is calcium aluminate-based, soluble salt content are immobilized in cement, minimizing rebar rusting.

Features

- Minimizes rebar corrosion by immobilizing salt content
- Makes plant installation/relocation convenient as long-distance mortar pumping (of ~100m) is possible
- Superior cross-sectional repair performance as compared to standard wet-mix shotcreting. ~10cm thickness (wall surface) can be applied at a time, making it suitable for mass construction
- Incorporates polyacrylic ester that which suppresses damage to steel-reinforced concrete caused by water, CO₂, salt
- Minimizes cracking that compromises mortar durability

Applications

- Cross-sectional repair of steel-reinforced concrete structures
- Mortar lining

Packaging

- Mortar-type : 25kg paper bags
- Quick-hardening Technoshot AF-type : 25kg plastic/cardboard composite containers

Standard Mix Proportions

	water/ CHLORE FIX SHOT (%)	Unit volume (kg/m ³)		
		water	CHLORE FIX SHOT	Technoshot AF ¹
Per bag	14.0	3.5	25	0.5
Per m ³	(13.0 ~ 15.5)	273	1950	39

¹2% (0.5~3.0%) by weight of **CHLORE FIX SHOT** is recommended.

Standard Usage

- 20kg/m² of **CHLORE FIX SHOT**, 0.4kg of Technoshot AF for applications of 10mm thickness

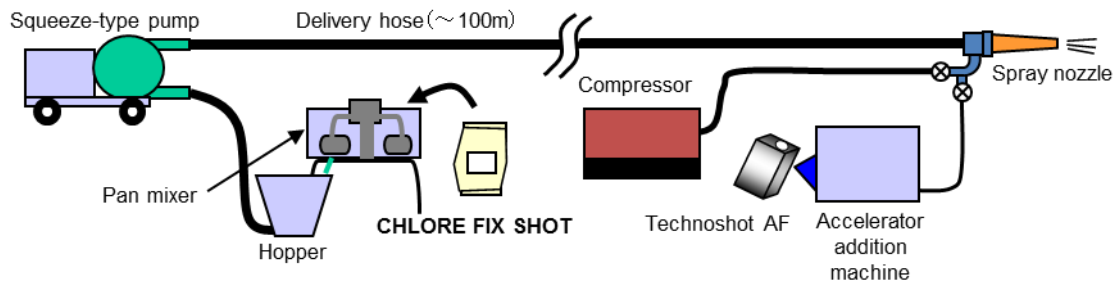
Technical Data (Physical Properties)

All measurements were done at 20°C.

	Unit	Age	Measured value	Method
Mortar flow (prior to accelerator addition)	mm	Immediately after	193	JIS R 5201
Compressive strength	N/mm ²	Day 7	36.5	JIS R 5201
		Day 28	47.2	
Flexural strength	N/mm ²	Day 7	8.1	JIS R 5201
		Day 28	9.3	
Adhesion strength	N/mm ²	Day 28	2.2 (base material destroyed)	JHS432
Dimension change	%	Day 28	-0.037	JHS432
Salt shielding			1/4 of ordinary concrete ²	JIS A1171

²w/c=55%, cement weight of 320kg/m³

Application Example



- For details on the application technique, please refer to the procedure manual.

Handling Precautions

- Refer to the Safety Data Sheet (SDS) before use.
- Do not add other cement, sand, additives to **DENKA CHLORE FIX SHOT** and Technoshot AF.
- Conduct trial tests before application as the workability of mortar changes depending on the surrounding conditions (temperature, humidity etc.).
- 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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