

MARKCHEM QUICKSET AF645 DRY

Powder Alkali-Free, Setting Accelerator for Shot Crete



DESCRIPTION

QUICKSET AF645 Dry is a powder high performance alkali-free accelerator developed for shotcrete with a very rapid setting time.

FEATURES / ADVANTAGES

- A major use for this product is in accelerated shotcrete for mining, tunneling or rock stabilization operations where rapid set or high early strength are required for structural support.
- Accelerated shotcrete is also used for rapid sealing of water seepage through rock, earth or concrete.
- In situations where rapid installation of a reinforced shotcrete is needed, MARKCHEM steel fiber reinforcement can be included in the mix to provide the required performance, as well as silica fume
- Production of fast setting concrete using conventional Portland cement, for example fence post mix.

TYPICAL CHARACTERISTICS

- | | | |
|--------------------|---|------------------------------|
| • Appearance | : | White |
| • Initial Setting | : | < 10 Minutes |
| • Final Setting | : | < 30 Minutes |
| • Chloride Content | : | NIL |
| • Bulk Density | : | 1030 -1100 kg/m ³ |
| • PH Value | : | 4 ± 1 |

(1 : 3 cement : Zone II Sand mortar with W/C 0.5 and 5% **QUICKSET AF645 Dry** Powder by weight of cement tested to BS4551)

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SPECIFICATION COMPLIES

- ASTM C 1141 Type 1 Grade 9 Class B.

DIRECTIONS FOR USE

DOSAGE

Typical rate of addition is 2 to 6kg of **QUICKSET AF645 Dry** powder/100 kg of cement. The optimum rate should be found by site trials

APPLICATION

QUICKSET AF645 Dry powder is added direct to the blending hopper containing the mixed cement and aggregate. The accelerator only begins to work once water is added at the nozzle.

OVERDOSING

QUICKSET AF645 Dry powder can be used at rates up to 6kg per 100kg cement. Overdosing may lead to setting before the concrete reaches the surface. The long term strength of an accelerated mix may not attain control strength if high dosage is used.

CAUTION

If moisture content of aggregate is above 3%, **QUICKSET AF645 Dry** powder should be added and blended immediately prior to spraying.

CLEANING OF TOOLS

Tools and equipment can be easily cleaned with water. Skin contact should be avoided as it is slightly acidic & seek medical advice.

STORAGE AND SHELF LIFE

Store the material in cool and dry place (25°C temp). Shelf life is one year when materials are stored in unopened containers as per recommended storage conditions.

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PACKING

25 Kg and 50Kg Bag

HEALTH AND SAFETY

- If it comes in contact with skin, mouth, eyes etc. wash it with plenty of water & if needed take medical advice. If accidentally gets ingested seek immediate medical attention. It is non-toxic
- Do not reuse the containers for storage of consumable items for further information refers to the material safety data sheet. MSDS available on demand.

DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance

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PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

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