

MEYCO[®] SA430

High performance liquid accelerator for wet-mix shotcrete

Description

MEYCO SA430 is a high performance accelerator, mainly for use in the wet spraying process, but can also be used in the dry spraying process. It is a liquid additive whose dosage can be varied to the desired setting and hardening times.

Uses

Typical applications

MEYCO SA430 is suitable for all applications where large coating thicknesses and early strength values are decisive. Principal applications are

- Tunnels
- Galleries
- Mining
- Slope and construction pit protection
- Repair works

Advantages

- Faster setting and higher early strengths than with shotcrete without set accelerators
- Increased layer thicknesses possible
- Secures rapid work progress
- Low viscosity
- Easy to mix into the concrete, also at low temperatures
- Low consumption
- Achieves higher final strengths and more durable shotcrete as compared with traditional accelerators

Typical properties

| | |
|------------------|-----------------------|
| Aspect | : Translucent liquid |
| Relative density | : 1.36 ± 0.01 at 25°C |
| pH | : 11 ± 1 |
| Chloride content | : < 0.2 % |

Specification Clause

The high performance liquid accelerator for shotcrete shall be MEYCO SA430, a caustic, high solids (> 45%) formulation. The product shall have density in excess of 1.35 and shall be capable of enhancing performance of wet shotcrete by reducing the rebound by 50% of control.

Directions for use

Surface preparation

The substrate must be clean and free from loose particles and only wet to lightly sprinkled.

Mixing

Cement: Fresh standard Portland cement should be used because the reaction time is reduced by prolonged storage. Preliminary tests are recommended for cements providing high sulphate resistance and for foreign cements.

Aggregates: Favourable granulometric structure and sand quality are very important for high impermeability and strength values of the applied shotcrete.

The concrete (350-550 kg of cement per m³) is batched in the concrete mixer and applied by means of a screw or piston machine. MEYCO SA430 is introduced with a proportioning pump into the compressed air which is added at the nozzle.

Dosage

The dosage depends upon required setting time and hence the dosage is determined by the type of substrate and its water run off. Dosage has also to be adjusted to the temperature of the substrate and the sprayed material, and to the reaction time of the cement.

According to the required setting time, the consumption of MEYCO SA430 ranges between **3-8% of the binder weight**.

Overdosing (>8%) can cause a corresponding reduction in final strength.

Packaging

MEYCO SA430 is supplied in 275kg drums.

Storage and Shelf life

MEYCO SA430 must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +15°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the



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product or packaging. For specific storage advice consult your local BASF representative.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

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