

CHRYSO® Jet 30 AF

Alkali-free, non-caustic accelerator for shotcrete

DESCRIPTION

- **CHRYSO® Jet 30 AF** is an alkali-free accelerator especially suited for wetcrete.
- This liquid based admixture is made from a blend of inorganic powders and can be added to a sprayed concrete mix in order to impart properties of high build and low rebound.
- **CHRYSO® Jet 30 AF** can start up a sudden drop of slump and has a thixotropic effect at the time of spraying.
- This accelerator activates the cement hydration process and can bond shotcrete onto any wall.
- The product should be used in combination with superplasticers.

BENEFITS

- **CHRYSO® Jet 30 AF** can be used in every application in wetcrete.
- **CHRYSO® Jet 30 AF** can be applied up to 200 mm thick to vertical surfaces (walls) and up to 150 mm to horizontal surfaces (roof) overhead dependant on the weight and volume of concrete.
- **CHRYSO® Jet 30 AF** is alkali free and non caustic creating safer handling and operating conditions.
- Low rebound – the controlled set allows the new material to be embedded into the applied mortar.
- **CHRYSO® Jet 30 AF** meets the requirements of ACI 506-56 (The recommended practise for shotcreting, the Concrete Society specification for sprayed concrete.)

PHYSICAL and CHEMICAL PROPERTIES

Product Nature	Liquid
Color	Slightly milky yellow-white
Lifetime	12 months
Water solubility	Miscible
Halogen Dry Extract	52,50 % ± 2,00
Cl ⁻ Ions content	≤ 0,100 %
pH	3,00 ± 1,00
Dry extract (EN 480-8)	52,50 %
Dynamic viscosity (20°C)	250 mPs.s
Specific Gravity	1.42 ± 2
Odour	Characteristic
Dynamic viscosity (5°C)	400 mPs.s

METHOD OF USE

- Tunnelling
- Mining
- Drilling projection
- Gallery
- Underground halls

Dosage :

- The support must be wet and dust free.
- The optimum dosage of **CHRYSO® Jet 30 AF** can only be established after trial tests, taking into the account the working conditions as well as the required setting time, type of support, temperature, workability retention of concrete and type of cement.
- This will allow for the optimisation of admixture dosage and mix design.
- A starting point for such trials is to use a dosage within the normal range of 3 litres to 7 litres per 100 kg of cementitious material (including PFA, GGBFS or micro silica).
- Dosages outside this typical range can be used if necessary and suitable to meet the particular mix requirements. However, this should be done under adequate supervision.
- A pump mix design is required to produce a high workability mix without the risk of bleeding or segregation of the aggregates.
- **CHRYSO® Jet 30 AF** is introduced by a subservient pump, added together with the air at the nozzle.
- Nozzle operators need adequate training.
- After a long stop, the dosing equipment must be rinsed with water.

PRECAUTIONS

Storage

CHRYSO® Jet 30 AF has a maximum shelf life of 12 months, provided the temperature is kept within the range of 5°C to 30°C. Please phone the CHRYSO technical department for advice should the temperature fall outside of this range.

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PACKAGING

- Bulk delivery on request
- 100 ℓ drum
- 200 ℓ drum
- 25 ℓ jerry can

SAFETY

- Refer to the material safety data sheet.
- **CHRYSO® Jet 30 AF** is classified as harmless; however it is recommended that one wears standard personal protective equipment when using this product.

Skin, eyes and ingestion

- Although **CHRYSO® Jet 30 AF** does not fall within the hazard classification of the current regulations it should not be swallowed or come into contact with skin and eyes.

Fire

- **CHRYSO® Jet 30 AF** is non flammable.

Prior to any use, please read carefully the Material Safety Data Sheets.