

## CHRYSO® Jet 50 AF

Alkali-free, non-caustic accelerator for shotcrete

### DESCRIPTION

- **CHRYSO® Jet 50 AF** is an alkali-free accelerator that is especially suited to 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 50 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 50 AF** can be used in every application in wetcrete
- **CHRYSO® Jet 50 AF** can be applied up to 250 mm thick to vertical surfaces (walls) and between 100 mm and 200 mm to the horizontal surfaces (roof) overhead dependent on the weight and volume of the concrete.
- **CHRYSO® Jet 50 AF** is alkali free and non caustic creating safer handling and operating conditions. The product guarantees initial strength.
- Low rebound – the controlled set allows the new material to be embedded into the applied mortar.
- **CHRYSO® Jet 50 AF** meets the requirements of ACI 506-56 (The recommended practise for shotcreting, the Concrete Society specification for sprayed concrete.)

### PHYSICAL and CHEMICAL PROPERTIES

<b>Product Nature</b>	Liquid
<b>Color</b>	Slightly milky yellow-white
<b>Lifetime</b>	12 months
<b>Water solubility</b>	miscible
<b>Halogen Dry Extract</b>	52,50 % ± 2,00
<b>Cl<sup>-</sup> Ions content</b>	≤ 0,100 %
<b>pH</b>	3,00 ± 1,00
<b>Dry extract (EN 480-8)</b>	52,50 % ± 2,000
<b>Specific Gravity</b>	1.42 ± 2
<b>Odour</b>	Characteristic
<b>Viscosity (25°C)</b>	30 - 50 secs (Ford #4 Cup)

### PACKAGING

- Bulk delivery on request

### METHOD OF USE

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

#### Dosage :

- The dosage of **CHRYSO® Jet 50 AF** is variable between 1% and 10% of the cementitious weight.
- The optimum dosage of **CHRYSO® Jet 50 AF** can only be established after trial tests, taking into the account working conditions as well as the materials, 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.
- The support must be wet and dust free.
- A pump mix design is required to produce a high workability mix without the risk of bleeding or segregation of the aggregates.
- **CHRYSO® Jet 50 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. shotcrete application area must be wet and dust free.

### PRECAUTIONS

#### Storage

- **CHRYSO® Jet 50 AF** has a maximum shelf life of 12 months,
- The temperature is kept within the range of 5°C to 30°C
- Please contact the CHRYSO technical department for advice should the temperature fall outside of this range.

The information contained in this document is given to the best of our knowledge and is the result of extensive and controlled testing. However, it cannot under any circumstances be considered as a warranty involving our liability in the case of misuse. Tests should be conducted before the product is used to ensure that the methods and conditions of use of the product are satisfactory. Our specialists remain at the disposal of customers if they require help with the application of the product for their specific needs. [za.chryso.com](http://za.chryso.com)

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- 1000 ℓ flow bin
- 200 ℓ drum
- 25 ℓ jerry can

## SAFETY

- **CHRYSO® Jet 50 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 50 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 50 AF** is non flammable.

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