

# CHRYSO® Jet 25 AF

Alkali-free, non-caustic accelerator for shotcrete

## DESCRIPTION

- **Alkali-free, non-caustic Accelerator for Shotcrete**
- **CHRYSO® Jet 25 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 25 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 25 AF** can be used in every application in wetcrete.
- **CHRYSO® Jet 25 AF** can be applied up to 150 mm thick to vertical surfaces (walls) and up to 100 mm thick to the horizontal surfaces (roof) overhead dependant on the weight and volume of the concrete.
- **CHRYSO® Jet 25 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 25 AF** meets the requirements of ACI 506-56 (The recommended practice for shotcreting, the Concrete Society specification for sprayed concrete.)

## PHYSICAL and CHEMICAL PROPERTIES

Product Nature	Liquid
Color	Clear
Lifetime	12 months
Halogen Dry Extract	38,50 % ± 2,00
Cl <sup>-</sup> ions content	≤ 0,100 %
Dry extract (EN 480-8)	38,50 % ± 2,000
Specific Gravity	1.32 ± 2
pH	3.5 ± 1
Viscosity	10 - 20 secs (Ford #4 Cup)

## PACKAGING

- 1000 ℓ flow bin
- 200 ℓ drum
- 25L Container

## METHOD OF USE

### Use

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

### Directions

- 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 25 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 dozing equipment must be rinsed with water.

### Dosage :

- The optimum dosage of **CHRYSO® Jet 25 AF** can only be established after trial tests, taking into the 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 5 litres to 10 litres per 100 kg of cementitious material (including PFA, GGBFS or microsilica).
- 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.
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### PRECAUTIONS

- CHRYSO® Jet 25 AF has a maximum shelf life of 12 months provided the temperature is kept within the range of 2°C to 30°C.
- Please phone the CHRYSO technical department for advice should the temperature fall outside of this range.

### SAFETY

- **CHRYSO® Jet 25 AF** is classified as harmless; however, it is recommended that one wears standard personal protective equipment when using this product.
- Although **CHRYSO® Jet 25 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.
- **CHRYSO® Jet 25 AF** is non-flammable.

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