

CHRYSO®SPRAYSET HBP

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Non-caustic admixture for sprayed concrete and shotcrete

■ Features

CHRYSO®SPRAYSET HBP is a chloride free non-caustic admixture for sprayed concrete, shotcrete and gunite.

It is supplied as a powder which is added to the mix to impart properties of high build and low rebound.

CHRYSO®SPRAYSET HBP starts up a sudden drop of slump and a thixotropic effect at the time of spraying. The reaction with particles of cement is immediate.

■ Benefits

- Low rebound due to controlled set
- No adverse affect on strength
- High build up with minimal slump ensures faster coverage rates
- Safe to handle Standards Compliance **CHRYSO®SPRAYSET HBP** does not contravene requirements of ACI 506-66 Recommended Practice for Shotcreting. Concrete Society Specifications for Sprayed Concrete
- Used to enable a high build of sprayed concrete, shotcrete and gunite.

■ Application

Mixing **CHRYSO®SPRAYSET HBP** should be well dispersed in the dry mix, either as a bulk blend or with automatic dosing equipment while feeding the concrete mix. It is recommended that the moisture content of the mix is below 4% and that addition of **CHRYSO®SPRAYSET HBP** occurs immediately prior to use.

CHRYSO®SPRAYSET HBP is used in all dry-mix shotcrete application.

1. Tunnelling
2. Gallery
3. Mining
4. Slope stabilisation
5. Shaft protection
6. All types of cement
7. Compatible with Micro silica, GGBS and Fly Ash.

Overdose:

An overdose of double the intended amount of **SPRAYSET HBP** will have little effect on properties of build, set time, or strength gain compared to that normally obtained at the intended dosage.

Curing:

As with all cementitious systems, good curing practice should be maintained.

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■ Description:

Characteristics:

CHRYSO®SPRAYSET HBP is a Powder.

1. Nature : Powder
2. Colour : Grey/White
3. pH : Neutral
4. Cl⁻ ions content nil to BS 5075

CHRYSO®SPRAYSET HBP does not contain any purposely added calcium chloride or other chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

Packaging:

- 25 Kg bags

■ Directions for use:

Dosage:

The optimum dosage of **CHRYSO®SPRAYSET HBP** to meet specific requirements must always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimisation of admixture dosage.

Typical dosage levels for **CHRYSO®SPRAYSET HBP** for use in sprayed concrete, shotcrete and gunite lies in the normal typical range of 2,0 – 8,0 kg/100kg of cementitious.

Use at other dosages outside the typical range suggested on this sheet may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes.

Contact the **CHRYSO®** Technical Service Department for advice in these cases.

Compatibility:

CHRYSO®SPRAYSET HBP is compatible with all types of Portland cement, class C and F fly ash, slag, micro silica, calcium chloride, fibers and approved air entraining admixtures.

Storage:

• Shelf life **CHRYSO®SPRAYSET HBP** has a minimum shelf life of 12 months if kept in a dry store in the original, unopened bags. Storage conditions Store in dry conditions in the original, unopened bags. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

■ Safety:

CHRYSO®SPRAYSET HBP is non-caustic. It should not be swallowed or allowed to come in contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

Refer to Material Safety Data Sheet available from CHRYSO..

About CHRYSO:

Worldwide leader for cement and concrete additives for over 70 years, **CHRYSO** has been designing, producing, specifying and delivering its added-value solutions to the construction professionals with outstanding innovation and quality service. As a result, **CHRYSO's** brand and products have been associated with the most prestigious and demanding construction projects over the globe.

Manufactured under License by,



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