

CHRYSO® Sprayset HBP

Non-caustic admixture for sprayed concrete and dry shotcrete

DESCRIPTION

- CHRYSO® Sprayset HBP is a chloride free non-caustic admixture for sprayed concrete, dry shotcrete and gunite.
- CHRYSO® Sprayset HBP is supplied as a powder which is added to the mix to impart properties of high build and low rebound.

BENEFITS

- Low rebound due to controlled set.
- No adverse effect on strength.
- High build up with minimal slump ensures faster coverage rates.

PHYSICAL and CHEMICAL PROPERTIES

Product Nature	fine powder
Color	white to grey
Lifetime	12 months
Water solubility	soluble in water
Cl ⁻ Ions content	≤ 0,100 %
pH	3,00 ± 1,00
Specific Gravity	0.900

PACKAGING

- 25 kg bag

METHOD OF USE

- Used to enable a high build of sprayed concrete, dry shotcrete and gunite.
- It provides set acceleration and reduces rebound.

Dosage :

- The optimum dosage of CHRYSO® Sprayset HBP can only be established by using trial tests, taking into account local conditions affecting the workability of the fresh mix and the mechanical properties required of the concrete or shotcrete.

Typical:

- By weight: 2.0 – 5.0 kg per 100 kg of cementitious material (including extenders) is commonly used.

Dispensing/Mixing

- CHRYSO® Sprayset HBP should be well dispersed in the dry mix, either as a bulk blend or with automatic dosing equipment whilst feeding the concrete mix. It is recommended that the moisture content of the mix is below 4% and that the addition of CHRYSO® Sprayset HBP is added immediately prior to use.
- Overdosing:** An overdose or double the intended amount of CHRYSO® 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.

Typical Performance Examples:

- Typical performance examples from evaluation studies of CHRYSO® Sprayset HBP are included below. The values quoted are representative of results obtained and are provided as illustrations of the performance in different situations. Because of the variability of concreting materials, the results should only be taken as typical of the performance to be expected. Results quoted in individual examples should not necessarily be taken as direct comparisons with other examples given here or results obtained elsewhere for CHRYSO® Sprayset HBP or other products.

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Control mortar 1:3 OPC: Zone 3 Sand

Table 1: High build/controlled set.

Mix	Build (mm)	Initial Set (mins)	Final Set (mins)
Control	50	150	240
Control +5% Sprayset HBP	100	15	30

PRECAUTIONS

Storage

- **CHRYSO® Sprayset HBP** has a shelf life of 12 months starting from the manufacturing date – provided no other chemicals are added to it.
- **CHRYSO® Sprayset HBP** is stored at high temperatures and/or high humidity conditions, the shelf life may be reduced.
- **CHRYSO® Sprayset HBP** should be stored away from rain and frost.

SAFETY

- **CHRYSO® Sprayset HBP is non-caustic.**
- **CHRYSO® Sprayset HBP** is 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.

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