



SBR Polymer Additive

DESCRIPTION

CHRYSO CIM is a water based liquid containing a styrene-butadiene type copolymer. CHRYSO CIM is stable in alkaline environments and is completely compatible with hydraulic binders.

CHRYSO CIM :

- increases workability, cohesion and bonding.
 - improves the tensile strength, abrasion and impact characteristics of the mortar.
 - is not affected by hydrolysis; it can be used in mortar temporarily or even permanently in contact with water, or sea water.
 - reduces the modulus of elasticity, shrinkage and dusting.
 - makes the mortar more impervious and increases the resistance against oil, grease, fuel and weak acids.
- Mortar containing **CHRYSO CIM** is non toxic and will not taint foodstuffs.

Characteristics

- ♦ Nature : Liquid
- ♦ Density : 1.010
- ♦ pH : 10.5
- ♦ Colour : Milky white
- ♦ Freezing point : about -8°C

Packaging

Barrels : 215 Litres
 Drums : 60 Litres

METHOD OF USE

Applications

- Dash bond-coating for rendering and screed.
- Cement based rendering and mixed rendering.
- Waterproof rendering for tanks, reservoirs, retaining basins and swimming pools.
- Bonding and waterproofing of render or plaster.
- Cement screeds laid without preparing the surface for improved adherence
- Smoothing and profiling mortar for angles and spalling.
- Linking mortar for re-concreting.
- Mortar for fixing precast elements and tiles and for fixing traffic islands and pavement borders to concrete and levelling manholes.
- Mortar for joining and plugging masonry joints, chimney stacks, gaps...
- Repairing floors (pot holes).
- Slurry for surface sealing, covering bituminous foundation coats, correcting cladding defects.

Directions for use

- Dosage (approximate) :
- Mortar : 500 g/m²/cm thickness.
 - Dash bond coating and slurry : 110 g/m²/cm thickness.

Surface preparation :

The surface must be sound, firm and clean, free from superficial bleed water, flaking and grease. The surface must be soaked and then dried and must be at least +5°C.

A- Preparation of CHRYSO CIM solution:

- 1 part CHRYSO CIM
- 2 parts water.

This unique solution is used as mixing water except for rendering and plaster.

B Preparation of mixture for dash bonding, brush rendering and slurry using CHRYSO CIM :

- 50 Kg of cement
- 35 Kg of sand 0/3 mm

Mix to a creamy consistency with solution A (on average 1 litre of solution A for 3.5 Kg of the dry mixture).

C Preparation of mortar using CHRYSO CIM :

- 50 Kg of cement
- 35 Kg of sand 0/3 mm

Mix to the required consistency with solution A.

Mix by hand, as for normal mortar, or with a concrete mixer or power mixer, until a homogenous mix is obtained. Avoid prolonged mixing.

Applying the mixture

♦ Rendering

After preparing the surface as previously indicated, apply a dash bonding layer using mixture B and leave to harden (cannot be scratched by a fingernail). Apply the body of the render using mortar C, in one or more coats depending on the thickness needed and level with a beam without compacting.

Apply the finishing coat with mortar C using sand graded to 0/2 mm, compact the coat using a float and / or trowel.

Mixed rendering is composed of :

- 50 Kg of cement
- 40 Kg of lime
- 150 Kg of sand.

When applying renders on wet surfaces (tanks, waterproofing renders), add the dash bonding layer between 2 to 2.5 litres of Chrysoxel CLS for 100 kg of cement.

The bonding and waterproofing of plaster is obtained by preparing a special solution of 1 part **CHRYSO CIM** to 4 parts water.



SBR Polymer Additive

• Plasters

Prepare a mortar composed of :

- 25 Kg of plaster
- 75 Kg of sand
- 25 litres of the above mentioned solution.

Spray this liquid mortar onto the pre-prepared surface to a thickness of 3 to 5 mm.

Leave it to harden and apply the render to the pure plaster mixed with the solution (following the method in the DTU 25-1 procedure).

♦ Screed

After preparing the surface as previously indicated, apply a layer of slurry using mixture B, 2 to 3 mm thick.

Apply, on to the fresh slurry, the body of the screed, composed of the mortar C mixed with water to a "wet earth" consistency.

Level with a beam, even up the surface with a float and / or smooth with a trowel.

Prevent drying out by spraying 150g/m² of solution A 1 to 2 hours after applying.

Start to humidify after 24 hours continue for 3 days.

To improve resistance to wear and corrosion, replace mortar C by a mortar composed of :

- 50 Kg of cement
- 40 Kg of hard finishing aggregates
- 50 Kg of 0/3 mm sand.

♦ Smoothing and profiling

Prepare the surface as previously indicated. Mix the mortar C with a previously mixed 0/2 sand. Impregnate the surface with solution A using a brush or paint brush.

Before dry (still tacky), apply the mortar. Smooth with a beam or float and compact with a trowel.

♦ Repairing concrete

Wash with a hose the concrete to be repaired. Prepare mortar C to a plastic consistency and apply it onto the dampened surface , 2 to 3 cm thick. Pour the concrete immediately, take care in the pouring (pitting or vibration) in order to have a good concrete - mortar adherence.

♦ Bedding mortar

Prefabricated elements : wet and prepare the surface as previously indicated. Apply a mixed mortar C of plastic consistency onto the fixed part and place the prefabricated element so that the excess mortar oozes out of the gap, which is then removed before finishing the joint.

Tiling : for vertical tiling onto concrete or masonry, after preparing the surface, place as normal using mortar C.

For floor tiles, prepare the surface as previously indicated. Mix a special mortar composed of 1 part cement, 3 parts sand (100 litres of sand for 1 bag of cement) and solution A.

Apply the mortar and even it using a beam. Place the tiles, tapping them lightly so that excess mortar oozes into the joint. spread only enough mortar to be able to place all the tiles before hardening of the mortar. the joints will be filled by a laitence of cement (white or grey) mixed with solution A.

♦ Joints and roofing

Clean out the joint , if necessary, to a depth of a few centimetres.

Wash out with a pressurised water jet.

Apply mortar C to the damp surface. Avoid a lack or excess of material in the joints in accordance with the DTU-20-11 standard.

Mortar C is also used for repairing roof seals (flashing, chimney stacks, recesses and capping).

♦ Floor repairing

After preparing the surface as previously indicated, apply the slurry with a brush and whilst fresh, apply the mortar C.

Smooth with a beam or float and compact with a trowel.

♦ Surface coating

(Sealing or coating)

After preparing the surface as previously indicated, apply slurry composed of fine sand 0/1 mm, mixed with water to a creamy or liquid consistency. Apply using a brush in 1 or 2 coats, applied 4 to 5 hours apart.

Precautions

- Agitate the liquid before use.
- Store the product in a frost free environment.
- If it freezes, leave the product to stand at 20°C for a few hours then agitate it in order to render it homogenous.
- The shelf life of **CHRYSO CIM** is 12 months.

SAFETY

CHRYSO CIM is not considered dangerous but it is recommended that normal industrial precautions are taken : gloves, goggles. Refer to safety data.

The information contained in this document is given to the best of our knowledge and the results from extensive testing. However, it cannot, under any circumstances be considered as a warranty involving our liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. Our specialists are at the disposal of the users in order to help them with any problem encountered.