

## **MAX 3030 CRYSTAL**

(Crystalline Waterproofing)

### DESCRIPTION:

**MAX 3030 CRYSTAL** is a crystalline waterproofing admixture in a dry powder form that is added to the concrete mix at the time of batching. **MAX 3030 CRYSTAL** can transform an entire concrete structure into an impermeable water barrier with lasting integral waterproofing properties. Active ingredients of **MAX 3030 CRYSTAL** react with moisture to form crystals deep within the pores and capillary tract of the concrete structure. Used to waterproof both the interior and exterior of building, **MAX 3030 CRYSTAL** prevents concrete decay and protects against moisture transmission, chemical attack and corrosion of reinforcing steel.

### FEATURES & BENEFITES:

- **MAX 3030 CRYSTAL** is a permanent, nontoxic product that is highly resistant to aggressive chemicals.
- An integral waterproofing system that is a permanent solution.
- The product can be added to concrete at the time of batching and is therefore not subject to climatic restraints.
- Process friendly and increases flexibility in construction scheduling.
- The product is ideal for concrete exposed to harsh conditions and enhances the durable properties of concrete as it protects the concrete from waterborne soluble salts.
- **MAX 3030 CRYSTAL** can be used for positive and negative waterproofing of a structure.
- **MAX 3030 CRYSTAL** Gives concrete crack sealing characteristics, it can seal hairline crack up to 0.4 mm wide.

### AREA OF APPLICATION:

- Sewage and water treatment plants
- Tunnel
- Dams
- Precast structures
- Reservoirs
- Underground structures
- Precast components
- Foundations
- Swimming pools

### STANDARDS:

ASTM D412

### APPLICATION:

- As site conditions and temperature variations commonly occur, SEMITRONE technical department is readily available to tailor make mix designs and dosages according to a customer's requirements.
- **Application of coating system:** Add 2 part of water & 5 part of MAX Crystal. Use the material within 20 minutes apply 2 coats. With interval of 3-4 hours or first coat get semi dry on clean surface with smooth brush.
- **MAX 3030 CRYSTAL** is added to concrete during the batching process. Directions may vary according to the type of batch plant operation and equipment used.
- The recommended dosage rate is between 0.8% and 1% of the cement weight.
- **Ready-mix plant wet** – the ratio must be 18 kg **MAX 3030 CRYSTAL** to 8.1 litres of water or 25 kg of **MAX 3030 CRYSTAL** to 11.3 litres of water – this will form a slurry. Add to the wet concrete that is being batched in the truck to the required dosage of 0.8 or 1%. Batch the concrete as normal good practice requires, keeping in mind that the amount of water added to the **MAX 3030 CRYSTAL** slurry should be subtracted from the batching water that needs to be added. Mix for at least five minutes in order to make sure that **MAX 3030 CRYSTAL** is evenly distributed throughout the mix. Ready-mix plants dry-add **MAX 3030 CRYSTAL** directly to the drum of the dry mix truck and then thoroughly mix the admixture with half of the required aggregate. Add the water, making sure that the product is distributed evenly throughout the mix water. Add the remaining half of the water and aggregate. Precast – Add **MAX 3030 CRYSTAL** to coarse aggregate and fine aggregate and



then mix thoroughly for 2-3 minutes before adding cement and water.

- The total quantity of the water to be added into the design mix should take into consideration the moisture content of both coarse and fine aggregates.
- The aggregate, cement and water should be batched according to standard practice.

#### TECHNICAL DETAILS:

Colour:	Grey
Specific gravity @ 25°C:	1.3 Bulk
Physical state:	Powder
Solubility:	Partially soluble
pH when mix with water:	11 ± 1
Water Pressure Head:	Up to 150m head
Particle Size:	40-150microns

COVERAGE: 1.25 kg / Sq. Mt. per coat when used alone for dry shake broadcast.

#### MIXING:

- The total quantity of the water to be added into the design mix should take into consideration the moisture content of both coarse and fine aggregates. In order to achieve a homogenous mix, never add the dry powder of **MAX 3030 CRYSTAL** into a wet mix. This is because the **MAX 3030 CRYSTAL** powder will not disperse properly within the mix.
- Before adding **MAX 3030 CRYSTAL**, make sure that the concrete temperature of the mix is above 5°C.

#### Packing:

25 kg Bag

#### STORAGE & LIFE:

Best before one & half years from the date of manufacture when in sealed pack and stored in cool & dry place. Away from direct sunlight.

#### TECHNICAL INFORMATION & SERVICES:

Further information and advice, including practical demonstration are freely available with the Technical Service Department of **SEMITRONE CONCHEM PVT LTD - AHMEDABAD.**

**DISCLAIMER:** The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results.



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