

Voga Cryst-Seal

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VOGEL SYSTEMS Technical data sheet

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Product: **Voga Cryst-Seal**

Date of print 22.09.2022

1. Identification

Product identifier

Voga Cryst-Seal

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Product for construction chemicals Recommended use: for industrial and professional users



Details of the supplier of the safety data sheet

Company:
VOGEL SYSTEMS
Operating Division Construction Chemicals

E-mail address: info@vogel-systems.de

Emergency telephone number

International emergency number

Surface Applied Capillary Waterproofing Cementitious Coating

DESCRIPTION

Voga Cryst-Seal is a powder form with perfect blend of Portland cement with other ingredients. Crystalline chemicals react with water in concrete to form crystals structure in the tiny capillaries. These insoluble crystals structure that clogs the pores. This process continues until all the chemicals have reacted.

APPLICATION FIELDS

Voga Cryst-Seal is an integral waterproofing admixture to produce water tight concrete. The active chemical in Crystalline react with moisture available in concrete to produce non soluble crystalline formation throughout the pores of capillary tracks thus making concrete permanently sealed against water penetration from any direction.

ADVANTAGES

- 1.Easy to use, require only mixing with concrete.
- 2.Integral waterproofing system.
- 3.Crack filling property with time up to 0.5mm width.
- 4.Exhibits good resistance to hydrostatic water pressure both surface.
- 5.Compatible with our full range of water reducing admixture.
- 6.More effective due to formation of crystalline in tiny capillaries.
- 7.Reduce Shrinkage and Creep.
- 8.Increase Durability.
- 9.Permeability Reducing Admixture .

USES

1. All types of concrete foundation below ground.
2. Water reservoir.
3. Tunnel Concreting.
4. Retaining walls and subways.
5. Deck slab - Bridges, plinth and intermediate slab used for car parking.
6. Water tank and Swimming pools.

APPLICATION INSTRUCTIONS

▪ Surface Preparation

- Surfaces to be treated must be free from dust, oil, grease, paint residual curing compound, mould oils.
- Remove any laitance and provide an open pored, slightly rough surface sufficient to act as a mechanical key, essential for adequate adhesion of the treatment.
- Areas of weak or honeycombed concrete must be repaired. Hollow, debonding renders must be removed.
- Surfaces to be treated if not already wet, should be saturated before first applications .

• Mixing

- Add **Voga Cryst-Seal** (powder) to the clean water while mixing.
- Mechanical mixing must be used to ensure complete dispersion of the powder component, add the remaining clean water and mix for an additional three minutes .
- add (7.5-8 L.) of clean water to 25 kg. sack of product.

• Application

- **Voga Cryst-Seal** mixes are applied by brush or spray onto the dampened substrate.
- Apply the material in 2 coats at right angles, the second coat whilst the first is firm, but 'green' - usually 3-4 hours after first coat (dependant on temperature) or maximum 24 hours.
- For old concrete, brickwork and granular concrete blocks, replace the second **Voga Cryst-Seal** coat with a render 5-10mm thick .

• Curing

- the **Voga Cryst-Seal** must be prevented from drying out too rapidly and should be kept damp for 5-7 days.
- Mist spraying with water and covering with polythene is effective when drying out would otherwise take place.
- Protect from weathering, sun, frost and wind for a similar minimum period.

CLEANING

Tools and equipment should be cleaned, immediately after use, with Water.

Once product cures, this can only be removed by mechanical means.

TECHNICAL DATA

Product characteristics	
Form	Powder
Color	white , Grey.
Density	2 kg/L
Pot life	30 min
Compressive Strength	45-50 N/mm ²
Flexural strength	10-12 N/mm ²
Bond strength	7-8 N/mm ²
Water Permeability Pressure	5 Bar -ve/+ve
Water Vap.transmission	0.012Perms

CONSUMPTION

Estimated consumption **Voga Cryst-Seal** is 0.8-1kg / m² / coat .

PACKAGING

Voga Cryst-Seal is supplied in pre-weighed sack of 25 kg.

STORAGE

Twelve months in its unopened original packaging. Store in a cool, dry and covered place, protected from moisture , frost and direct sunlight, with temperatures between 5 °C and 30 °C.

SAFETY AND HEALTH

Voga Cryst-Seal is a non-toxic product but direct contact with skin and eyes must be avoided , Use rubber gloves and safety goggles when handling, mixing and applying the product .

- If ingested seek medical advice.