



# TECHNICAL DATA SHEET

## TOP COAT

### OVERVIEW

**Concrete Aqua Guard Top Coat** is a unique chemical treatment designed to waterproof and protect concrete from water penetration of the pores and capillaries. **Top Coat** is chemically similar to **Concrete Aqua Guard Crystal Slurry** only less potent and is purposely designed to be a surface applied treatment that penetrates into concrete for an in-depth waterproofing solution. **Top Coat** is applied as a second coat with **Crystal Slurry**. **Concrete Aqua Guard Top Coat** works within the concrete's substrate to react with un-hydrated cement particles and water to grow crystals within the concrete mass. In doing so it will make the concrete permanently waterproof.

### FEATURES

- Is a permanent, one time only application for the life of the concrete
- Is user friendly and easy to apply
- Is applied to either the positive or negative side

### ADVANTAGES

- Will work to prevent rising damp and water penetration with low hydrostatic pressures
- Will reactivate the waterproofing mechanism should water be present in the future
- Will increase the durability of the concrete
- Will protect against cracking and spalling
- Will provide a cost effective second coat to Concrete Aqua Guard Crystal Slurry applications

### BENEFITS

- Protection of reinforcing steel against chemical attack
- Protection against deterioration of the concrete due to waterborne chemical attack
- Protection against deterioration of the concrete due to AAR/ ASR
- Protection against deterioration of the concrete due to cast in contaminants
- Protection against deterioration of the concrete due to carbonization
- Protection against deterioration due to freeze/thaw environments

### RECOMMENDED FOR

Dampproofing of any concrete structure in areas where hydrostatic pressure is lower or for use as a cost effective second coat for **Concrete Aqua Guard Crystal Slurry** for the following projects:

- Swimming Pools
- Sewage and water treatment Plants
- Tunnels and Subway Systems
- Water towers and water reservoirs
- All below grade concrete foundations
- Concrete Walls and floors
- Parking Garages
- Marine Structures
- Pipes
- Rooftops
- Bridge Decks
- Dry Vaults

### APPLICATION

Concrete Aqua Guard Top Coat is a dry powder that when mixed with water to a creamy consistency can be applied as a brush on slurry to concrete as per the following mix proportions:

- **Single Coat Brush Applied Slurry Applications:**

Use 1 kg per m2, mixed 5 parts powder to 2 parts water

- **As A Double Coat In Brush Applied Slurry Application:**  
Use 0.8 kg per m2 per coat, mixed 5 parts powder to 2 parts water
- **As A Second Coat over Crystal Slurry:**  
Use 0.8 kg per m2, mixed 5 parts powder to 2 parts water

Concrete Aqua Guard Top Coat may also be trowel finished for an alternative to brush look finishes. It is important to note that first Top Coat will need to be brushed to insure maximum penetration into the pores and capillaries prior to trowel finishing.

Do not add water to the mix should signs of setting occur - remix to restore plasticity.

**NOTE:** Follow Concrete Aqua Guard Top Coat Application Instructions for appropriate surface preparation, application and curing instructions

### PHYSICAL PROPERTIES

|                     |                            |
|---------------------|----------------------------|
| Colour              | gray                       |
| Appearance          | powder                     |
| Solids              | 100%                       |
| Bulk density        | 1.20                       |
| PH                  | 11                         |
| Rate of Penetration | 1 mm per week              |
| Particle size       | 50 - 150 microns           |
| Water Pressure      | 5 m (when used as 2 coats) |
| Shelf Life          | 2 years (when kept dry)    |

### CURING

**Concrete Aqua Guard Top Coat** requires wet curing. Follow instructions as contained within the appropriate application instructions.

### COVERAGE

All single coat applications: 1 kg powder per 1 m2  
 As a first coat: 0.8 kg powder per 1m2  
 As a second coat: 0.8 kg powder per 1m2

**Note:** Follow Application Instructions for appropriate surface preparation prior to application

### SAFE HANDLING

Concrete Aqua Guard Top Coat is a cementitious base and as such possesses a high alkaline content. It may cause skin and eye irritation. Use appropriate and suitable protective clothing and eye protection when mixing and or using **Concrete Aqua Guard Top Coat**.

Please refer to Manufacturer's Safety Data Sheets for health and safety information.

### STORAGE

Store in dry location, opened bags or pails will deteriorate if subjected to moisture.

### PACKAGING

20kg buckets  
 Alternate packing may be made available upon request