

# BLUSKY™ FLOWCRYSTAL

## General Purpose Crystalline Cementitious Waterproofing Coating System

### Description

**BLUSKY™ FLOWCRYSTAL** is a general purpose cementitious waterproofing system which protects and waterproofs concrete structures by crystallization. The active chemicals react with moisture in the concrete resulting in crystalline formation within the pores and capillary tracts of concrete thus waterproofing the structure against penetration of water and other liquids from any direction. **BLUSKY™ FLOWCRYSTAL** gives a strong and lasting waterproofing protection against dampness and ground water hydrostatic pressure.

### Indicative Characteristics

Hard dry	< 16 hours
Permeability to water (as per IS 2645)	Nil
Chloride Content (as per BS 5075, part I)	Nil
Mixed Density, kg/ l	1.8 ± 0.2
Typical rate of crystal penetration	2 mm (0.08 in.) per week
Hydrostatic head resistance	125m
Adhesion strength	1.8 N/mm <sup>2</sup>

### Domains of Application

**BLUSKY™ FLOWCRYSTAL** is used to waterproof underground concrete structures affected by water infiltration such as internal or external foundations, basements, lift shafts, underground

garages and store rooms. **FLOWCRYSTAL** is ideal for waterproofing internal and external concrete walls of : tanks, cisterns containing drinking water or mildly aggressive liquids and to water proof the new or degraded concrete of : reservoirs, drainages systems, tunnels. **FLOWCRYSTAL** may also be used on brick surfaces, tufa, and stone. Provided a new reinforced plaster surface is created which must be perfectly anchored to the substrate to be waterproof.

### Method of Application

#### Surface Preparation

The concrete surface must be clean and free from laitance, oils, grease, curing agents or other foreign particles, sand blast or acid etch surface before treatment.

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users Consult the latest update of the technical data sheet on our website [www.bluskyscpl.com](http://www.bluskyscpl.com)

Concrete surface must be sound. Rout out visible cracks exceeding 0.4 mm wide, honeycombed pockets to depth about of about 40 mm and width of 25 mm.

Mix three parts of **BLUSKY™ FLOWCRYSTAL** to one part water by weight, until stiff mortar consistency is achieved .Prime concrete surface with one slurry coat of FLOWCRYSTAL before applying the mortar mix onto area to be patched, tightly sealing cavity. FLOWCRYSTAL must be applied on damp substrate only to ensure maximum chemical penetration. Pre-wet substrate until damp prior to application of FLOWCRYSTAL.

Mix 6-8 liter of water to 25 kg.

Always mix the powder to the clean water by using a mechanical stirrer. Mix for two minutes until a smooth lump free consistency is achieved.

### Application

Apply a minimum of 2 coats in perpendicular directions, using block brush or roller. The second coat must be applied while the first coat is still green but is sufficiently set so that it is not drawn off while applying the second coat. The mixed material must not be applied at temperature below 5 degree Celsius or on frozen surface.

#### Dry Shake Method (Negative Waterproofing)

Sprinkle **FLOWCRYSTAL** powder directly from the packaging after allowing concrete to achieve initial set. Sprinkle **FLOWCRYSTAL** at the rate of 3-3.5 Kg/m<sup>2</sup> evenly and trowel to required finish or powder float.

#### Dry Shake Method (Positive Waterproofing)

Sprinkle **FLOWCRYSTAL** powder directly from the packaging at therate of 2 Kg/m<sup>2</sup> evenly onto the lean concrete substrate just before pouring on the concrete.

# BLUSKY™FLOWCRYSTAL

## General Purpose Crystalline Cementitious Waterproofing Coating System

### Curing

After **BLUSKY™FLOWCRYSTAL** coating has hardened, cure the treated surface with a light mist of clean water at regular intervals threetimes a day, for the initial two or three days. In extremely hot water curing period may have to be extended to several periods.

### Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from **+5°C to 40°C**

### Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

### Coverage

**BLUSKY™FLOWCRYSTAL** slurry coat/brush application method, apply at the rate of 1.5 to 2 Kg/m<sup>2</sup> in two coats depending on the area of application.

### Packing

25 Kg Bags.

### Precautions

Protection of **BLUSKY™FLOWCRYSTAL** is not obligatory. However, if used on external areas, subjected to heavy rain, harsh sunlight or frost, the finished application should be protected for at least 24 hours..

Before use, refer to the Material Safety Data Sheet The MSDS is available on [www.bluskyscpl.com](http://www.bluskyscpl.com)

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users Consult the latest update of the technical data sheet on our website [www.bluskyscpl.com](http://www.bluskyscpl.com)