

# VARAGUARD SFX

## ELASTOMERIC CEMENTITIOUS WATERPROOF COATING

### DESCRIPTION

**VARAGUARD SFX** is supplied as a ready to use two component product consisting of a dry powder mix (Part A) and a specially formulated Acrylic liquid polymer (Part B). It requires only the addition of clean water to produce an easily brushable coating.

### USES

- ◆ **VARAGUARD SFX** is a white high performance elastomeric cementitious coating used for waterproofing and to protect atmospherically exposed reinforced concrete structures from attack by acid gases, chloride ions, oxygen & water.
- ◆ **VARAGUARD SFX** is suitable for all types of structures including those in marine and coastal environments.
- ◆ **VARAGUARD SFX** can be used on concrete, brick and block work substrates and is equally suitable for new and existing structures.
- ◆ **VARAGUARD SFX** is designed to reface and even out variations in concrete and masonry surfaces and bridge shrinkage cracks.
- ◆ **VARAGUARD SFX** provides a seamless, flexible waterproof coating suitable for water tanks, reservoirs, drainage culverts basements and roofs.
- ◆ **VARAGUARD SFX** provides a tough durable water resistant coating which can withstand light pedestrian traffic and also has excellent resistance for exterior applications.

### ADVANTAGES

- ◆ **Easy to use:** Easily brushable product and may be adjusted to be applied by trowel in special cases.
- ◆ **Durability:** High resistance to the effect of long-term weathering, durable in all climate conditions including UV attack.
- ◆ **Adhesion:** Excellent bonding to concrete and masonry.
- ◆ **Flexibility:** Good flexibility to ensure all round performance under severe climatic conditions.

- ◆ **Barrier Properties:** provides an excellent shield against the penetration of carbon dioxide Sulphate and chloride ions.
- ◆ **Waterproofing:** Excellent even under pressure.
- ◆ **Vapour Permeability:** A cured membrane of 1 to 2 mm thickness vapour permeable and allows the substrate to breathe.
- ◆ **Special Features:** A fully cured membrane is non-toxic, hard wearing seamless shield capable of bridging surface cracks upto 1 mm (Static) due to its good crack accommodation capacity.

### MIXING

**VARAGUARD SFX** is supplied in pre-measured units and should be mixed on the site using clean plastic pails. Take **VARAGUARD SFX** Part B in the pail and add 3 litres of clean potable water. Gradually add the dry powder (Part A) and mix using a slow speed electrical drill fitted with mixing paddle.

### MIXING RATIO:

VARAGUARD SFX PART A = 15 KG  
VARAGUARD SFX PART B = 5 KG  
CLEAN WATER = 3 LITRES

Do not mix more material than can be utilised within 1 hour's time. Mix thoroughly and keep mixed during application. Do not re-mix by adding water.

### SURFACE PREPARATION

All concrete to be treated with **VARAGUARD SFX** should be clean. Remove laitance, dirt, grease etc., by means of high pressure water blasting, sand blasting or mechanical wire brushing. The surface for application should be well soaked with water, advance of time and prior to the installation of the slurry.

Apply properly mixed **VARAGUARD SFX** whilst the concrete surface is damp. Use a stiff bristle brush or roller. For depressions more than 6mm make a trowellable mix using PART A & PART B only and apply using a trowel.

Apply the second coat after previous coat has dried. Install in 2 coats a membrane of minimum thickness 1.0mm. Areas subjected to moderate to heavy hydrostatic pressure a 2 mm coating applied in 3 or 4 coats with a screed placed above is recommended

If **VARAGUARD SFX** is used in areas that will be walked on or if required to toughen the coating applied then use of fibreglass or other reinforcing fabric is recommended. This is pressed into position whilst the first coat is still tacky and then followed by a full second coat.

**Curing Period:** Whilst there is no need for a curing aid, it is important that applied surface is allowed to cure on its own for at least 7 days at 30<sup>0</sup> C and above or 14 days at 20<sup>0</sup> C or below. Any testing (if required) should be carried out after the curing period.

**NOTE:** If **VARAGUARD SFX** is used in tanking situations it is preferable to wash down the surface with water after the curing period and then put into use.

**Coverage:** 1 Double pack covers about 12 - 14 square metres at 1 mm thickness.

## PACKAGING

**VARAGUARD SFX** is available in a 20kg double-pack consisting 15 kg of dry powder (Part-A) and 5 kg of liquid (Part-B).

## PRECAUTION

**Cleaning:** All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage systems.

**Protection:** All works must be protected from rain and frost until fully hardened. It is recommended to Protect with polyethylene sheeting or similar.

**Storage:** Shelf life is 12 months when stored dry conditions at moderate temperature and humidity. Protect Part-B from frost.

## PERFORMANCE STANDARDS

**BS - 1881 Part - 5 1983 - I.S.A.T.**

**DIN 1048:** Water penetration test. , ASTM D4541,ASTM D638, ASTM C836

## HEALTH AND SAFETY

**VARAGUARD SFX** is non toxic but is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.