

## SHELL GUARD 2K

### AN ELASTOMERIC, CEMENTITIOUS, WATERPROOF COATING FOR CONCRETE AND MASONRY

#### PRODUCT DESCRIPTION

**SHELL GUARD 2K (PC 2122)** is an elastomeric flexible, two components polymers modified cementitious system that requires only on -site mixing forming ideal waterproof coating on concrete, masonry and most other construction materials. When cured, a 2 mm thick **SHELL GUARD 2K** membrane shall accommodate movements up to 0.5mm or up to 1.2mm when reinforced with 100% virgin polypropylene, **SUPREME FIBER GLASS** woven fabric. **SHELL GUARD 2K** can be provided with antiroot properties to be used in waterproofing of landscaping.

| PROPERTIES                              | SHELL GUARD 2K              |
|---|-----------------------------|
| Mixed Density, gm/cm <sup>3</sup>       | 1.85 ± 0.1                  |
| Mixing Ratio by Weight                  | 2 (powder): 1(liquid)       |
| Pot Life                                | 120 mins. @25 °C            |
|   | 30 mins @40 °C              |
| Recoating Time @30 °C                   | 8 to 12 hours               |
| Elongation at break at DFT of 1mm       | >42 %(Ambient)              |
|   | >30 %(Under Water)          |
| Tensile Strength                        | >20 kg/cm <sup>2</sup>      |
| Adhesion to Concrete                    | Excellent                   |
| Theoretical Coverage, kg/m <sup>2</sup> | 2.5 kg for 1.5 mm thickness |
| Application Temperature                 | 10 °C to 40 °C              |
| Water Penetration @2mm DFT              | 1.5 bars- No leakage        |

**SHELL GUARD 2K** conforms to BS 1881 Part 5 1983 - I.S.A.T. DIN 1048 Water Penetration Test

#### ADVANTAGES

- Retains flexibility when submerged
- Good chemical resistance against soft water, domestic waste water, manure or other liquids moderately aggressive to mineral substrates.
- Resist to occasional foot traffic
- Water vapour permeable
- CO barrier, provides anticarbonation benefits
- Excellent adhesion, bonds to porous and non - porous surfaces
- Non - toxic suitable for contact with potable water
- Saves time - can be applied to 24 hour old - concrete.

#### AREA OF APPLICATION:

- Water - retaining structures subjected to movements
- Basement - Waterproofing
- To protect concrete from water, carbonation and de - icing salts.
- Waterproofing of roofs, sunken floors in bathrooms, WC, etc.
- Waterproof coating for drinking water tanks, sumps, etc.

#### APPLICATION METHODOLOGY

**SURFACE PREPARATION:** The surface to be coated must be clean and sound. Remove all traces of formwork, release agents, previous coatings, laitance and any other contaminants that may affect the bond adversely. Suitable cleaning methods include high pressure water jetting and grit blasting. Mechanical wire brushing May be appropriate for small areas. After the above surface preparation, surfaces must be thoroughly washed with clean potable water to remove all dust and loose particles. Spalled concrete should be cut back to sound concrete and made good with a suitable cementitious repair mortar. All cracks and bolt holes must be cut out and filled solid with **SHELL GUARD 2K**.

**MIXING: SHELL GUARD 2K** is supplied in premeasured units and should be mixed on site utilising clean containers. Slowly add the powder to the liquid and mix, using a slow speed drill fitted with a suitable paddle. Leave the mixed material to stand for 5 minutes to allow for full saturation to take place. Remix to restore the consistency. Do not mix more material than can be used in half an hour. **DO NOT RE - TEMPER WITH WATER**

#### APPLICATION

Always apply **SHELL GUARD 2K** to pre dampened surface. High - suction substrates require more dampening then dense substrates. However, make sure there is no free standing water. Apply by brush or broom. Mixed material must be used within 30 to 45 minutes or less under hot weather conditions.

**FIRST COAT:** Brush or broom the mix firmly onto the pre - dampened, prepared surface. Care must be taken not to spread the material too thinly. When the material begins to drag or “ball” do not add more liquid/water but dampen the surface again.

**SECOND COAT:** Allow at least overnight to cure before applying subsequent coats. Dampen the first coat and remove excess moisture. Brush or broom the mix onto the surface (as above) finishing in the opposite direction to the first coat.

With reinforcing mesh: 100% virgin polypropylene Supreme Fiber Glass woven mesh is used to reinforce **SHELL GUARD 2K**. Embed the mess in thick base layer of approximately 0.5mm thickness, covered with the first coat of **SHELL GUARD 2K** while base coat is still wet. Ensure that the mesh is a minimum of 200 mm wide when treating existing cracks, joints and junctions.

**CURING:** Under hot or excessive drying conditions fog spray after the initial set has taken place for as long as practicable. In cold, humid or unventilated areas it may be necessary to leave application for a longer time curing period or to introduce forced air movement. Never use dehumidifiers during curing periods.

#### EQUIPMENT CLEANING

Not hard material may simply be removed with water.

**COVERAGE:** Each square metre will require minimum of 0.9kg of mixed material per layer. The coverage rate for each layer will be strongly influenced by the roughness of the substrate.

2.5 kg/m in two coats to achieve 1.5mm thickness

3.6 kg/m in three coats to achieve 3mm thickness

#### STORAGE AND SHELF LIFE:

Store in cool dry place. Shelf life of the unmixed material is one year from the date of manufacture.

#### PACKAGING:

Available in 15 kg moisture resistant bags.

#### HEALTH AND SAFETY:

Do not apply in rain.

Do not over dilute with water.

The technical data provided here is the average result of the tests carried out in our in-house **SUPREME BITUCHEM CONSTRUCTION CHEMICAL** laboratory on **SHELL GUARD2K**. **SUPREME BITUCHEM** reserves the right to change or modify the data without prior notice. All reasonable care has been taken in compiling the data that to the best of knowledge is accurate and true. All recommendations are made in good faith. We can accept no responsibility and no warranty is implied with regard to any of the recommendations made in the technical data sheet, since the conditions of actual use and the labour involved are beyond our control. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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#### REGD. OFFICE :

**SUPREME BITUCHEM INDIA PVT. LTD.**

Block No. 13/14, Sevasadan Square, Central Avenue,  
Nagpur - 440018

Ph : 0712-2777833, Mob : +91 7875000100

Email : [customercare@supremebituchem.com](mailto:customercare@supremebituchem.com)

: [marketing@supremebituchem.com](mailto:marketing@supremebituchem.com)

#### CORP OFFICE:

Aurora Towers, Off. No. 401, 4th Floor, West Wing,  
9 Moledina Road, Near M.G. Road, Pune - 411001.

**Mob.** : +91 9423685761

**Email** : [punetso@supremestartech.com](mailto:punetso@supremestartech.com)

#### WORKS :

Plot No. C-240/1, Butibori Industrial Area,  
Nagpur-22

Email : [info@supremebituchem.com](mailto:info@supremebituchem.com)

#### BRANCHES AND DEPOT :

I Andhra Pradesh : 09168 652 032  
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