



## PRODUCT DATA SHEET

# DOLPHIN SBR 104

## CONCRETE SOLUTIONS

# WATERPROOFING & BONDING ADMIXTURE FOR CEMENTITIOUS SYSTEM

### PRODUCT DESCRIPTION

DOLPHIN SBR 104 is an aqueous, hydrolysis resistant copolymer dispersion, based on styrene butadiene polymer latex with high bonding characteristics. DOLPHIN SBR 104 is extremely stable in cement. It is used in mortar and concrete as an admixture to increase water resistance and durability.

### FEATURES

The stabilized polymer particles in the aqueous dispersion bind together to form continuous films and strands which stitch to the opposite sides of the void together and block up spaces, thus increasing flexural strength and resistance to water penetration. The SBR modified cementitious system imparts an elastic quality that more rapidly accepts thermal movements and surface tension. It ensures superior adhesion.

### APPLICATIONS

- Bonding new concrete to old concrete.
- Concrete repair.
- Floor screeds and toppings.
- Waterproof render to tanks.
- Fixing tiles, bricks etc.

### ADVANTAGES

- High adhesion.
- Improves durability.
- Reduces permeability.
- High resistance to water penetration.
- Good frost resistance.
- Resistance to many chemicals and mineral oils
- Proven performance.
- Improves tensile and flexural properties.
- Permits thin application.

### TYPICAL PROPERTIES

#### Appearance:

Milky white liquid.

### CONSISTENCY:

Low viscosity

### Specific Gravity :

1.0 at 25°C.

### Toxicity:

Non toxic

### Flammability:

No tendency to flash or ignite.

### Shelf life:

Minimum 12 months in sealed original containers under recommended storage conditions.

### DIRECTIONS FOR USE

#### Surface preparation:

In all situations the surface must be clean laitance free and in roughened state. Use wire brush, bush hammer, scrubbing machine as appropriate. Exposed steel should be grit blasted or wire brushed to a bright finish and a suitable protective coating should be applied. When repairing spalled or damaged concrete, ensure that concrete has been cut back to thoroughly sound material.

#### Priming:

Reinforcing steel must be primed with zinc rich primer. The concrete surface must be thoroughly dampened with water and any excess should be removed before being primed by thoroughly scrubbing in a slurry coat of 1:1:3 by volume of DOLPHIN SBR 104 : water : fresh cement.

Avoid puddling of the slurry coat, the topping must be applied onto the wet slurry. If the slurry dries out it must be removed and the clean substrate should be reprimed.

#### Mix designs:

##### For adhesive mortars

Cement	50 kg
Medium sand	150 kg
DOLPHIN SBR 104	10 kg
Water	To achieve required consistency

**Recommended for adhesive bonding of slip bricks, terrazzo, tiles, mosaics, repairing of concrete .**

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## CONCRETE SOLUTIONS

Structures with moderate chemical resistance etc.  
Recommended thickness 8 to 40 mm.

### HEAVY DUTY FLOOR SCREEDS

Cement	50 kg
3 to 6mm aggregate	75 kg
Graded sharp sand	75 kg
DOLPHIN SBR 104	10 kg
Water	To achieve required consistency

Recommended for leveling of uneven floors, large area patching, abrasion resistant screeds to heavy duty areas. The screed should be semidry cohesive consistency. Recommended thickness 10 to 20 mm.

### Flooring, Patching, Renders, Concrete repair

Cement	50kg
Graded sharp sand	150kg
DOLPHIN SBR 104	10kg
Water	To achieve required consistency

Recommended for sealing and waterproofing concrete water tanks, basement and exterior foundation tanking.

### Curing

Thorough curing is essential on all exposed surfaces. This can be done by applying one or two coats of a proprietary curing membrane or by the method of water misting

Or by polyethylene sheeting or by similar techniques

### CLEANING OF TOOLS

Clean all the tools and equipment with water immediately after use.

### SAFETY PRECAUTIONS

**DOLPHIN SBR 104** is non hazardous in normal use. Contact with eye or skin should be cleaned or washed immediately with abundant water.

### PACKAGING

**DOLPHIN SBR 104** is supplied in 5 kg cans, 20 kg pails and 200 Kg drums

### STORAGE

- Store in sealed conventional containers, protected from extreme weather conditions.
- Stir well before use, if stored for a long time.

### GENERAL NOTES

- Prepare surface thoroughly. Toe in at edge wherever possible to avoid feather edging.
- All surfaces including edges must be primed.
- All applications on wet to wet.
- Primer should not be allowed to dry.
- To achieve sufficient consistency addition of water may require. Water content should be kept to minimum for attaining high strength and low permeability.
- Do not re-temper mortar or prime after initial set.

### TECHNICAL SERVICE :

Our Technical service Department is available at any time to advise you in the correct use of this product or any other products.

**Note :** The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control. **As all Technical Data Sheets are updated on a regular basis, it is the user responsibility to collect most recent issue.**