

# SUNKOLL SBR ACRYLIC POLYMER Technical Data Sheet

**SUNKOLL**<sup>®</sup>  
ABILITY ♦ STABILITY ♦ DURABILITY

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## Main application

Improves the adhesion of cementitious materials to various substrates. Enhances the flexibility, durability, and water resistance of mortars, plasters, and concrete mixes. Provides a waterproof barrier when added to coatings or membranes.

**SUNKOLL SBR ACRYLIC POLYMER** is an acrylic based cementitious liquid polymer emulsion with multiple complex corrosion inhibitor technology viz. DIFFUCIT® (Diffusive Corrosion Inhibiting Technology) designed for use as an additive with cementitious systems for bonding coat, waterproof coating and cement/sand mortars, screeds, etc.

## How To Use



## Technical advantage of SUNKOLL SBR ACRYLIC POLYMER

- SBR acrylic polymer can improve the flexural, compression, and impact strength of concrete and plaster.
- Excellent adhesion: SBR acrylic polymer has excellent bonding and adhesion to both new and old concrete and plaster.
- Water resistance: SBR acrylic polymer can improve resistance to water and water vapor.
- Chemical resistance: SBR acrylic polymer can improve chemical resistance.
- Crack bridging: SBR acrylic polymer has unmatched crack bridging ability due to its elastomeric properties.
- Weather resistance: SBR acrylic polymer is weather resistant.

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Water Proofing Chemicals | Adhesives | Grouts/Epoxy Grouts | Wall Putty

## Use

- As a bonding agent and additive for polymer modified mortars in structural repair applications.
- Waterproofing in overhead/ underground concrete tanks, sunken portion of toilets/ bathrooms, roofs/ terraces/ basements etc.
- As a bonding agent between old and new concrete, mortar, render, screed layers.
- As an adhesion promoter of render over insulation boards and similar materials.
- Waterproof plasters, damp-proof, anti-carbonation/ anti-efflorescence coating with cement slurry.
- As an additive for patching or mass-infill polymer mortar.
- As an additive for injection grouting into cracks and fissures.
- Anti-corrosive coating to steel/ re-bar with cement.
- Protective layer/coating for cementitious surfaces over spill-way, bridge deck, pavement, garage, stair-treads, drains.
- For waterproof, abrasion resistant and chemical resistant surfaces in sewage treatment plants and industrial floors.

## Features

- Inbuilt DIFFUCIT<sup>®</sup> technology helps in corrosion resistance.
- Improves strength characteristics of cementitious systems allowing thin layer applications.
- Highly waterproof cementitious composite.
- Excellent bonding to most building materials.
- Good breathability.
- Does not degrade under continuous UV exposure ensuring durability.
- Gives weather resistant mortar with improved durability, impermeability to chlorides and other harmful agents.
- Improved tensile and flexural strength of cement layers/ mortars.
- Resilient and yet tough hardened cementitious film or mortar.
- Compatible with all kinds of cement.
- It is resistant to hydrolysis and can therefore be used for wet applications.

**Technical Performances**

PARAMETERS	SPECIFICATION	TEST RESULTS
Appearance and Type		Milky White Polymer
Specific gravity at 27°C		1.03 ± 0.01
Total Solid % by mass @ 105°C		30±2 2000-
Fresh Wet Density, kg/m <sup>3</sup>		2100 20-30
Pot life of the mixed material @ 30°C and @ 60% RH, minutes		
pH		8-9
Bond Strength (14 DAYS), MPa	ASTM C882-87	2.0
Chemical Resistance		Resists mild acids and alkalis
7 day Compressive Strength, MPa (% change compared to control)	ASTM C 109	Minor reduction
7 day Tensile Strength, MPa (% increase compared to control)	ASTM C 190	10-15% increase at dosage of 10% by weight of cement
Elongation at break, % Carbonation resistance (3 weeks) Initial Surface water absorption,% (reduction against control)	ASTM D 522 Taywood Method BS 1881(Pt.5): 1983	19.0 Sc >150mm 90
Water Vapour permeability, perms	ASTM E-96	4.8
Water Permeability, mm	DIN 1048 (Pt. 5):1991	Withstands 20m water pressure head @ 1mm DFT

### Important Instructions :

- The product information and application recommendations for final use of Durabuild's products, are given in good faith based on Durabuild's vast knowledge and experience of products when properly stored, handled and applied under standard conditions as per Durabuild's recommendations.
- The user of the product must conduct trials and test to ensure the suitability of the product for intended application and purpose.
- Owing to the difference in other materials, actual site conditions and on-site workmanship factors which are beyond our control, the company shall not accept any liability either directly or indirectly arising out of use of our products whether or not in accordance with any advice, specification, recommendation or information given by it.
- Durabuild reserves the right to customise the properties of the product through minor adjustments or fine tuning in the formulation to meet the exact site requirements testimony to its continuing research and development.
- Users must refer to the most recent issue of product data sheet, copies of which can be made available on demand. Durabuild products are manufactured as per stringent national/international quality standards and are guaranteed against any manufacturing defect.
- All products are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request.



### **SUNKOLL Green Building Index :**

SUNKOLL Range of Products are most eco-friendly and suitable to use in all kind of buildings including certified green. Apart from using best of international raw material for best performance, SUNKOLL procure the major raw material locally to safeguard environment.

### **SUNKOLL Quality & Safety Assurance**

Products supplied are safe to use by any worker at site. However proper tools and safety measures must be in place for prolong working. The gloves, safety glasses and other protection measure must be followed as per local regulation.

### **Declaration :**

Check before using the product about performance and final expected results. **SUNKOLL** cannot be held All the above information and results are provided based on **SUNKOLL** internal quality test. Customer must responsible for any damage of whatsoever nature at site.

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