



## Multipurpose, Acrylic CoPolymer Based Compound for Use as Bonding Agent, For Preparation of Repair Mortars, Waterproof Mortars and other Polymer Modified Mortars

### General

**SS - PolyBond AC** is a specially selected and formulated acrylic co-polymer dispersion additive, developed for production of enhanced mortars and concretes. The improved cohesion, tack, impermeability and workability, the material provides, makes it suitable for use as a waterproof bonding agent, as a modifier to produce polymer modified repair mortars and polymer modified waterproof mortars. The material's applications can be extended to production of other specialty mortars such as screeds, plasters, and bonding adhesives.

**SS - PolyBond AC** in its original form can be used as a dustproofing sealer, or even as a basic curing aid for concrete. **SS - PolyBond AC** does not contain chlorides or corrosion promoting ingredients. It is UV Resistant, and provides excellent impermeability and abrasion resistance to prepared mortars. It enhances bonding and flexural strengths of prepared mortars. Strength of adhesion to the base is distinctly improved. **SS - PolyBond AC** is formulated for low air entrainment and excellent bonding. This allows excellent bond between existing mortars/ concretes and fresh mortars with an increase in compressive and flexural strength and impermeability compared to the reference mortars.

### Product Features

- Improves adhesion of mortars to substrates as well as provides efficient bond between old and new concretes or mortars
- Chloride free and free from corrosion promoting ingredients
- Provides impermeability, abrasion resistance and enhanced mechanical properties to mortars
- Alkali and water resistant
- Non toxic, Ideal for waterproofing / repair of potable water tanks
- Resistant to micro-organisms, fungus, algae and moss and UV rays
- Improves plasticity and Flexural Properties of Mortars



Concrete & Mortar Additives



### Areas of Application

- Bonding Agent between old and new cementitious surfaces
- Preparation of repair mortars
- Preparation of waterproof mortars
- Bonding additive for tile fixing
- Preparation of flexible floor screeds
- Preparation of waterproofing slurries for tanks, bathrooms, terraces, etc.
- Preparation of waterproof plasters and renders
- Formulation of carbonation and chloride resistant coatings
- Dustproofing and Curing Sealers



### Areas of Application

<b>Specification Keywords</b>	Acrylic Co-Polymer Dispersion, bonding agent, water and wear resistance, alkali resistance, flexural strength, chloride free, non-toxic, sealer
<b>Delivered As</b>	White Coloured Liquid
<b>Storage Instructions</b>	In Original Packing. In a cool dry place.
<b>Shelf Life</b>	12 Months from date of Manufacture.
<b>Post Use</b>	Use Complete Packs, Dispose packaging according to local regulations.
<b>Packing Size</b>	20 kg, 30 kg, 230 kg

**Assess Build Chem Private Limited**



## Hazards and Safety



## Technical Data

<b>Sp. Gravity</b>	1.05 ± 0.05
<b>Dosage</b>	5 to 20% by weight of binder, depending on application
<b>Chloride Content</b>	< 0.01%
<b>Usage Temperature</b>	> 20°C
<b>Potlife</b>	20-40 minutes
<b>Setting time of Mortars</b>	4 to 8 hours, depending on ambient temperature

## Instructions for Use

As for all mortar / bond coat applications, proper surface preparation is essential. The substrate to be bonded / repaired should be structurally sound, free from oils, grease, laitance, dust or curing compounds. Blend **SS – PolyBond AC** with a cement – fine sand mixture to make a slurry or mortar as required.

Always add the powder to the measured **SS - PolyBond AC** and not vice-versa as it helps in dispersion of the polymers. Mix Mechanically for 2 to 3 minutes to get a Mortar or slurry. Water if needed can be added to get the correct consistency. Wait 3 to 5 minutes for the polymers to activate and mix again prior to using. Use / apply the mortar or bond coat as required.

Some basic application types are listed below:

- **Bond Coat:** 1 part OPC + 1 part fine sand + 0.5 parts **SS - PolyBond AC** + Water as needed to get slurry consistency
- **Repair / Waterproof / Screed Mortar:** 1 part OPC + 3 part coarse sand + 0.2 parts **SS - PolyBond AC** + Water as needed to get mortar consistency
- **Sealer / Dustproofer / Curing Compound:** 1 part **SS - PolyBond AC** + 1 part Water
- **Waterproofing Slurry:** 1 part OPC + 1 part fine sand + 1 part **SS - PolyBond AC**

## Safety and Precautions

- Mix only small quantities that can be used within 30 minutes.
- Do not add water to hardened slurry / mortar.
- Higher temperatures accelerate the hardening and lower temperature delays it.
- The mortar requires adequate protection from drying out and needs curing. Please contact us for special applications.
- Over-dosage may cause retardation in mortar
- **SS - PolyBond AC** on its own is non-toxic, however any cement composition, when in contact with water, sweat or other body fluids causes irritant alkaline reaction and allergic reactions to those predisposed.
- It can cause damage to skin and eyes. Wear protective gloves and goggles and take the usual precautions for handling chemicals while using. If inhaled, move immediately to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes.
- Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Allow rags etc. to dry in a well-ventilated area out of the reach of children and pets.
- Local, state and federal regulations should be consulted for proper disposal procedures.