



ISO 9001:2000 Certified Company  
"TIME TESTED PRODUCTS"  
SINCE 1972

# Zahabiya

## SBR-161 LATEX EMULSION

### Old to New Concrete Bonding & Repair Admixture

**Zahabiya SBR-161 Latex Emulsion** is a tropicalized & stabilized, well-balanced blend of styrene butadiene rubber latex/ emulsion and other essential copolymers, used satisfactorily in Civil Construction and related applications as a multipurpose cement admixture especially for repair and maintenance applications. It is added to the concrete mix in a pre-determined quantity to increase the water proofing, chemical resistance and bond strength of cement plaster jobs in applications such as:

- Thin layer patching mortars.
- Concrete repairing/ resurfacing mortar.
- Mortar for fixing bricks slips and tiles, floor screeds and toppings.
- External rendering and corrosion protection of steel reinforcements.
- Specially recommended to be used for old to new concrete bonding & resurfacing old/ damaged structure.

Besides its use as a reliable Bonding Agent/ Cement Admixture, it suits many uses especially in industrial and commercial applications replacing natural latex rubber for elastic non-shrink bond, water & oil proof weather resistant protective film.

**COLOUR:**

Milky white emulsion.

**SOLIDS:**

Average non-volatile:  $51 \pm 1\%$ . [ASTM D2369]

**SPECIFIC GRAVITY:**

Normally ranges around 1.15 at 25°C. [ASTM D891]

**pH VALUE:**

10 - 10.5 [ASTM E70]

**SAFETY:**

Non-Toxic, Non-Corrosive & Non-Hazardous in handling. **"A Human Friendly/ Environmentally Acceptable"** Product.

**FLAMMABILITY:**

Non-flammable in liquid state.

**DILUENT:**

Normal potable water is advised.

**COVERAGE:**

Normally the pure latex covers approximately 110 ft<sup>2</sup> per kg per coat at moderate porosity.

**DOSAGE:**

In Civil Construction, usually it is added to cement/mortar in specified dosage as per nature of job. SBR-161 should only be added into the batching water being used for the preparation of concrete slurry and should not be added to the dry concrete mix directly.

**APPLICATION:****CONCRETE BONDING:**

1. Ensure that under repairing / resurfacing concrete surface is clean, dry and non-oily.
2. Apply one rich coat of SBR-161 diluted with equal amount of potable water (1:1).
3. Allow to dry for ½ hour to develop slight tackiness and then re-patch or re-surface with fresh rich Cement/Sand/Mortar mixture preferably prepared with SBR-161 mixed in the predetermined quantity of potable water @ 2 kg per 50kg bag of OPC / 1.50 kg per bag of SRC. Resurface the mixture compactly and uniformly ensuring that no air pockets or cavities are present between old to new concrete contact areas.
4. The topping must be applied to the final primer coat whilst the later is still in a bit wet condition.
5. Protect and hydrate (cure) in the normal way allowing enough periods for hydration as per the individual job and experience.
6. After plain water hydrations, SBR-161 mixed water is suggested for subsequent hydration in the ratio of 1 part SBR to 3 parts of water.

**SHELF LIFE:**

It can be stored up to 18 months normally, at about 30°C in well-ventilated place in our original sealed export packing. Keep the containers airtight after every use.

### ADVANTAGES OF USING ZAHABIYA SBR-161 IN CEMENT COMPOSITIONS

- The life of concrete modified with Zahabiya SBR-161 increases considerably with improved performance and overall properties lasting for years to come.
- Provides resistance from abrasion, deterioration and moisture/ chlorine/ oxidation and carbonation effect.
- Controls internal micro-stresses within the concrete structure.
- Reduces shrinkage & concrete bleed.
- Improves water proofing and inter-molecular adhesion resulting increased physical properties of the concrete.
- Protects steel from corrosion in concrete structure and seals/retards formation of voids/cracks.

**IMPORTANT NOTICE:**

The Information & Data contained herein are correct to the best of our knowledge, tests and experience. These are presented in good faith to the users. The recommendations and suggestions mentioned are made without guarantees or representations as to the results. The Consumer should satisfy himself as to the suitability of the product for the intended purpose and use. WE ASSUME NO LIABILITY for damages of any kind and the user accepts the product 'as is' and without any other warranties, expressed or implied. Our warranty is limited to the replacement of so proved defective Zahabiya original sealed product only, provided used within shelf life as supplied originally.



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