



ISO 9001:2015 CERTIFIED COMPANY  
"TIME TESTED PRODUCTS"  
SINCE 1972

# Zahabiya

## SBR LATEX EMULSION 1648

### SUPER BONDING AGENT FOR MORTARS

Zahabiya SBR 1648 is a low viscosity bonding agent based on styrene butadiene rubber latex which imparts to the mortar, excellent bonding, flowability, flexural strength and resistance to various types of chemicals including mild acids and alkali. Compatible with all types of cements, this construction grade SBR is designed to serve various needs of construction industry with economy and quality. Ideally recommended as an old to new concrete bonding agent and an admixture to produce repair mortars, industrial floors and waterproof screeds. The product imparts following qualities to the mortar in which it is added:

- 1 Improved adhesion to various substrates including aged concrete.
- 1 Provides corrosion protection of steel reinforcement.
- 1 Reduces thermal stresses, shrinkage cracks, permeability of gases, liquids as well as chloride and sulphate ions.
- 1 Improves workability and flow thus reducing water to cement ratio (increased strength).
- 1 Higher early strength development.
- 1 Increased flexibility (reduced e-modulus) & abrasion resistance.
- 1 Improved resistance against mild acids, alkali, effect of carbonation etc.
- 1 Excellent resistance against freeze-thaw cycles and de-icing salts.
- 1 Higher early strength development.

**COLOUR:**

**ODOUR:**

**VISCOSITY:**

**SOLID CONTENTS:**

**DENSITY:**

**GLASS TRANSITION TEMP:**

**SAFETY:**

**SPECIFIC USES:**

**COVERAGE/ DOSAGE:**

**APPLICATION:**

**SHELF LIFE:**

Milky White when supplied.

Mild resinous smell in liquid state. The cured film is odour free. [ASTM D1833]

30 +/-5 mPa.s.

47-49% non-volatiles. [ASTM D2369]

1.0 kg/litre at 25°C. [ASTM D1475]

-7°C

Safe in handling, non-flammable, non-toxic & non-corrosive in nature. A "Human Friendly/ Environmentally Acceptable Product".

SBR -1648 finds various applications in construction industry, including:

1. Old to New Concrete Bonding Agent (Primer).
2. Bonding & waterproofing agent for low cost cementitious waterproof coatings.
3. Bonding agent for high quality repair mortars.
4. Economical Admixture for screeds, plasters and other mortars.

Depends on the application and nature of job. As admixture for screeds, dosage of 4-5 kg per bag of OPC is recommended. For primer and repair mortar, please see below.

**PRIMER (OLD TO NEW CONCRETE BONDING):**

1. Surface should be clean from any grease, loose particles etc.
2. Damp the surface with potable water before application of primer.
3. Dilute SBR-1648 with equal quantity of water (liquid).
4. Prepare dry mortar using 1 part cement (OPC) with 3 parts of fine sand (powder).
5. Mix 5 parts of powder to 1 part of liquid in a paddle mixer to produce a thin mixture. Apply vigorously on the old damp surface by means of stiff brush to force the primer into pores.
6. Top mortar should be applied while the primer is wet and tacky, i.e. within 15 to 20 min of application.

Primer applied in such fashion can give a bond strength of greater than 2 N/mm<sup>2</sup>.\*

**REPAIR MORTAR:**

1. Follow the above instructions to prepare and apply the primer.
2. Repair mortar may be prepared using 1 part cement (OPC) with 3 parts of carefully selected and graded sand to give good compaction. Sand should be washed, dried and sharp.
3. Dilute SBR-1648 with equal quantity of water to produce the liquid component.
4. The liquid component be added @ rate of 125 to 150g per 1kg of above mentioned mortar. Usual practice is to slowly add cement and sand mixture into the liquid with constant stirring manually or by any paddle mixer. Add water only if consistency is very thick.
5. Apply compactly by means of a trowel, all over the primed surface while the primer is wet and tacky.

Repair mortar if properly prepared and applied may give following characteristics:

Shrinkage:	-0.65%*
Flexural Strength:	11.0 N/mm <sup>2</sup> *
Compressive Strength:	42.0 N/mm <sup>2</sup> *

To be stored at cool dry and well ventilated place. Shelf life in closed original containers is 1 year from the date of manufacturing. Keep container airtight after every use.

\* Indicative data. Client is strongly advised to do trials as results can significantly vary due to type of cement, sand, site conditions etc.

**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 product only, provided used within shelf life as supplied originally.

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