

TECHNICAL DATASHEET

ASCOBOND

Latex Waterproofing Additive Multipurpose Adhesion Enhancer

and



PRODUCT INTRODUCTION

ASCOBOND is a styrene butadiene copolymer synthetic latex polymer, which provides excellent high bonding and penetrating properties into concrete & masonry surface. It may be incorporated into cementitious renders, screeds or patching mixes in order to improve adhesion and abrasion resistance. It can be used internally or externally and in areas of continuous or intermittent water contact. **ASCOBOND** improves the chemical and water resistance of cementitious mixes and can also be used as waterproofing additive for cement based products to enhance adhesion, water resistance and compressive strength.

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VERSION : 1 (DEC : 2022)



RECOMMENDED APPLICATIONS

- 1. For high strength screeds and renders.
- 2. Concrete, mortar setting beds, etc.
- 3. Waterproof tanking (cellars, swimming pools and ponds).
- 4. Gypsum plaster & gypsum dry wall fibre panel.
- 5. General reconstruction work.
- 6. Repairs to precast structural members.
- 7. Masonry, stucco, grouting, etc.

KEY FEATURES

Provides enhanced and fortified adhesion to a wide variety of cement substrates:

- 1. Imparts high water/salt resistance when incorporated in a mix.
- Compatible with large assortment of concrete, grout, adhesive, stucco and cement based plasters.
- 3. Increases flexural and tensile strength.
- 4. Improves workability, adhesion & bond strength.
- 5. To improve water resistance and adhesion of cement based adhesives and grouts
- 6. Reduces shrinkage
- 7. Improves resistance to abrasion and chemicals
- 8. Multipurpose & cost effective

TECHNICAL PROPERTIES (Complies to ASTM C 109, Type II, BS 6319, EN 934 –2, EN 12190, EN 1542)

| Appearance & Base | SBR based modified viscous liquid |
|----------------------|---|
| Color | Milky White |
| Specific Gravity | 1.05 ± 0.02 Kg/L |
| % Solid content | ≥ 38.0 % |
| рН | 9 ± 1 |
| Chloride Content | Nil |
| Compressive Strength | \geq 33.0 N/mm ² @ 28 days (*Specific Mix Design) |
| Bond strength | 3 MPa |
| Flexural strength | 7 MPa |
| Tensile Strength | ≥ 2.5 N/mm ² |
| Adhesion to Concrete | ≥ 2.0 N/mm² @ 28 days |
| Water Resistance | Up to 2 bar pressure |

* The values obtained are from laboratory testing conditions and at $27 \pm 2^{\circ}$ C. On site tests may show slight variation due to site conditions and/or methods of testing/ application. Follow company TDS to obtain best results.



APPLICATION METHODS:

1. DIRECTION OF USE

SURFACE PREPARATION

The surface must be clean and structurally sound. Oil and grease must be removed from surface. Repair all cracks with the appropriate patching material. It is recommended to make the painted or glossy surface rough in order to ensure proper bond.

2. MIXING

| Primer | | |
|----------|------------------|--|
| Ascobond | 1 Litre | |
| Water | 2 Litre | |
| Cement | 2 Kg | |
| Coverage | 15m ² | |

| Bonding Slurry Coating | | |
|------------------------|-----------------|--|
| Ascobond | 1 Litre | |
| Water | 0.5 Litre | |
| Cement | 1 Кд | |
| Coverage | 6m ² | |

| Repair Mortar or Patch Work | |
|-----------------------------|--|
| Ascobond | 7 to 9 Litre |
| Water | 14 to 15 Litre |
| Cement | 50 Kg |
| Sand | 125 Kg |
| Thickness | Min. 10 mm; Max. 30 mm. with yield 90 to 100 Litre |

| Floor Screed | |
|-------------------|---|
| Ascobond | 7 to 8 Litre |
| Water | 8 to 10 Litre |
| ASCOSCREED RM | 50 Kg |
| Sand (Grade II) | 100 to 125 Kg |
| Aggregate (5mm) | 50 to 70 Kg **Optional for >25 mm thickness |
| Thickness | Min. 10 mm ; Max. 80 mm |

| | Injection Grout |
|---------------|------------------|
| Ascobond | 7 to 9 Litre |
| Water | 8 to 10 Litre |
| ASCOSCREED RM | 50 Kg |
| Sand | 100 to 125 Kg |
| Yield | Around 90 to 95L |

Injection Grouting :

ASCOBOND can be used to modify the properties of cement grout for the crack injection. The dosage of **ASCOBOND** shall be in the range of 3L/Bag of cement. The injection is to be done as per the standard practice.

2. CURING

During hot, dry days, or windy days, it is advisable to cover with moist burlap for 24 hours or as recommended. Air cures the surface for 2 to 4 days during normal use and 4 to 7 days during heavy traffic areas.



3. COVERAGE

Bonding slurry – 44 ft² to 55 ft² with mixing ratio of (1:1) with cement. Bonding agent / screed – 25 m² @ 5mm thickness. Water proofing slurry – 45 ft² to 55 ft² mixing ratio (1:1) with cement (for 2 coats).

Subject to mix for other applications.

4. SHELF LIFE

ASCOBOND has a shelf life of 12 months when stored at ambient temperature in airtight container. Exposure to direct heat or direct sunlight must be avoided.

5. PACKAGING

Available in 500ml, 1 Ltr, 5 Ltr, 20 Ltr, 50 Ltr & 200 Ltr.

6. HEALTH & SAFETY

ASCOBOND is non-toxic and non-inflammable. If any contact with the skin occurs, wash the skin with soap and water and apply skin conditioning cream. If any contamination with eye occurs, wash with clean water.

In case eyes or mouth are affected, wash with clean water and seek medical treatment immediately.

DISCLAIMER:

While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at www.ascolite.in. Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.

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