

TECHNICAL DATASHEET

ASCOBOND AR

Multipurpose acrylic bonding agent and Surface Protecting System for Concrete



PRODUCT INTRODUCTION

ASCOBOND AR is a multipurpose acrylic latex liquid bonding agent with concrete, plaster, cement screeds and renderings to various types of on surface. It can also be used to strengthen the rendering mixes. When mixed with cement/sand or aggregate combination, it becomes an effective patching and topping mortar.

INDEX

RECOMMENDED APPLICATION	02
TECHNICAL DATA	02
PRODUCT KEY FEATURES	02
APPLICATION METHODS	03
SURFACE PREPARATION	03
PRIMING	03
MIXING	03
GENERAL PURPOSE MORTAR/SCREED	03
WATERPROOF RENDERS	03
CURING	04
PACKAGING	04
SHELF LIFE	04

VERSION : 1 (JAN : 2023)

KEY FEATURES

1. Excellent bonding agent.
2. Minimizes cracks in concrete, stucco and plaster when used as an admixture.
3. Eliminates the need for separate air entraining agents.
4. Highly versatile and can be used easily for a variety of applications.
5. Greatly improves adhesion to substrate.
6. Cement based coatings and waterproofing cementitious systems.
7. Reduces shrinkage cracking.
8. Interior/exterior applications.

RECOMMENDED APPLICATIONS

1. Suitable for use on substrates like concrete, brick, masonry, terrazzo, etc.
2. Waterproofing: Balconies, wet areas, basements, etc.
3. Repairing: Used for filling cracks and floor underlayment to level floors, precast building panels & beams, pavement and bridge deck repairs.
4. Bonding Agent: Used in concrete repairing, bonding with plaster, stucco, cement and slurry coats.

TECHNICAL PROPERTIES (Complies to ASTM C 882-87 IS 101 & 516)

Appearance & Base	Acrylic co-polymer viscous liquid
Colour	Milky White
Specific Gravity	1.02 ± 0.02 Kg/L
pH	8 ± 1
Solids %	≥ 34 %
Compressive Strength	≥ 35.0 N/mm ² @ 28 days (*Specific Mix Design)
Bond Strength (Full cure)	≥ 2.5 N/mm ² , Concrete failure
Recoating Time @ 27°C	4-6 Hours
Full Cure	14 days
Tensile Strength	≥ 2.0 N/mm ²
Adhesion Strength	≥ 1.5 N/mm ²
Water Resistance	Up to 2 bar pressure

The values obtained are from laboratory testing conditions and at 27 ± 2°C . On site tests may show slight variation due to site conditions and / or methods of testing. Follow company TDS to obtain best results.

APPLICATION METHODS:

1. SURFACE PREPARATION

All surfaces must be clean and structurally sound. Oil and grease must be removed. For best results the surface of the concrete should be mechanically scarified, although other methods including sandblasting may be employed.

2. PRIMING

Use a mix consisting of 1 part OPC mixed with 1 part **ASCOBOND AR** gauging liquid (1 part **ASCOBOND AR** with 1 part water) by volume. Mix into a smooth paste. This primer is then brushed onto the prepared surface, after ensuring there is no free-standing water, using a stiff brush. It is essential that the topping is applied whilst the priming coat is still tacky. If it is allowed to dry out then the primer must be removed and surface re-primed using the same procedure.

3. GENERAL PURPOSE MORTAR/SCREED

It can be used as a render or screed after priming the surface. Thickness depends upon application but 12mm-15mm is normal. On vertical surface this should be built up in two application, time between application should be 6 hours. If the surface dries out completely then the surface should be re-primed.

4. INTERNAL & EXTERNAL WATERPROOF RENDERS

Two priming coats should be applied ideally at right angle to one another. After drying of first coat, approximately after 30 minutes, apply the second coat. Thickness of each sealing coat should not exceed 1.5mm. Allow the two priming coats to dry out for minimum 48 hours after which surface priming again needs to be done with general purpose mortar. Ensuring the thickness to be minimum 12mm-15 mm.

MIXING RATIO : 1 : 2 - ASCOBOND AR : OPC

APPLICATION	OPC (Kg)	ASCOBOND AR
One coat on concrete kg/m ²	0.50	0.25
Two coat on concrete Kg/m ²	0.750	0.375

(All mentioned coverage are subject to thickness and substrate conditions)

Application	OPC (Kg)	Sand (Kg) Zone 2	ASCOBOND AR	Potable Water
Bonding Slurry	50	00	8	Desired Consistency
Waterproofing Slurry	50	00	17	Desired Consistency
Repair Mortar 5mm to 30 mm Thickness	50	100	8	Desired Consistency
Plaster and Screeds 5 mm to 12 mm Thickness	50	125	7	Desired Consistency

5. CURING

Curing is essential for all cementitious products to prevent possible shrinkage cracks and ensuring the performance of the product are achieved.

6. PACKING

Available in 500 ml, 1 Ltr, 5 Ltr, 20 Ltr, 50 Ltr and 200 Ltr plastic pail with sealed cap.

7. SHELF LIFE

12 months from production date if stored in original, unopened packaging, in places protected from moisture, sun exposure and frost.

8. SAFETY GUIDELINE

- I. Use personal protective equipment (PPE) to use ASCOBOND AR for storage and application.
- II. If come in contact with eyes , immediately Wash eyes with plenty of water and seek medical advise.
- III. Use of Safety goggles , nose mask and hand gloves are recommended to protect eyes , skin and mouth while in use. (Material Safety Data Sheets are available through our company's representative or from our ASCOLITE' website)

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.