

## TECHNICAL DATASHEET

# ASCOFLEX II

Two-Part Highly Elastic, Crack Bridging Waterproofing Membrane



## PRODUCT INTRODUCTION

**ASCOFLEX II** is an elastomeric, 2-part, highly flexible & elastomeric waterproofing membrane consists of a polymer modified cemented powder, acrylic fibers, binders etc. It comprises of cement based polymer modified powder (component A) and special acrylic co-polymer emulsion (component B). On curing, it forms a seamless highly elastic & a tough membrane with strong adhesion for durable waterproofing.

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VERSION : 1 ( JAN : 2023 )

## KEY FEATURES

1. This coating can be applied in three or more layers for best result.
2. High elongation and crack-bridging ability.
3. It can be applied for 24 hours on old concrete, to provide immediate protection.
4. The final cured coating is breathable allowing the moisture vapor transmission.
5. Highly resistance to water penetration and protects from humidity and dampness.
6. Good bonding with slightly wet surfaces without priming.

## RECOMMENDED APPLICATIONS

1. Waterproofing of basements, all sorts of internal and external water retaining structures, pit, cistern, tunnel , drain, reservoir, sewage system, washroom, toilet bathroom and kitchen.
2. Waterproofing of concrete, plaster, bricks, cement-blocks, mosaic, gypsum boards, wood, metal etc.
3. Ideal in cases where high elasticity and good adhesion of the waterproofing layer is required
4. Suitable for waterproofing of substrates caused by expansion contraction or structural vibration including fine capillary cracks of terraces, water tanks, balcony, swimming pools, inverted roof and submerged structure.

## TECHNICAL PROPERTIES ( Complies to ASTM D 2370, ASTM D 412 , IS 101 , IS 2645 )

<b>Appearance &amp; Base</b>	Part A: Polymerized cementitious powder Part B: Modified acrylic polymer
<b>Colours</b>	Part A : Grey & White powder Part B : Milky White
<b>Mixing Ratio</b>	2.5 : 1 ( Part A : Part B )
<b>Mixed Density (30 °C )</b>	1.70 ± 0.05 Kg / L
<b>Pot Life (30 °C )</b>	30 ± 10 Minutes
<b>pH</b>	7 ± 1
<b>Touch Dry Time (30 °C)</b>	50 ± 10 Minutes at 30 Degree Celsius
<b>Re-Coating Time (30 °C )</b>	8 ± 1 Hours
<b>Full Curing Time (30 °C )</b>	7 Days (Depends on Season)
<b>Crack Bridging</b>	Up to 2 mm width
<b>Permeability (BSEN 12390 part 8)</b>	Up to 5 bar pressure
<b>Recommended Thickness</b>	1.2 mm DFT ( can be achieved in 2 coats )
<b>Elongation (ASTM D412)</b>	≥ 150 % (28 days curing)
<b>Tensile Strength (ASTM D 412)</b>	≥ 2.5 N/mm <sup>2</sup>
<b>Adhesion Strength to Concrete (ASTM D 4541)</b>	≥ 2.0 N/mm <sup>2</sup> (28 days curing)
<b>Toxicity</b>	Non-toxic, safe with potable water contact

\* 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/ application. Follow company TDS to obtain best results.

## APPLICATION METHODS:

### 1. Surface Preparation

**ASCOFLEX II** can be applied on clean surface free from dust, cement laitance, loose particles, oil, grease, etc. Water leaks should be plugged with **ASCOGROUT**. All cavities in concrete surface should be filled in and smoothed out using (**ASCOBOND 450/ ASCOBOND AR 470: WATER: CEMENT**) in ratio of 1:1.5:3. The cracks or work joints needs to be widened and in an inverse "V" shape i.e. in depth of about 1-2cm **ASCOFILL & ASCOBOND AR 470** should be filled. Corners like the floor joints with vertical walls should be filled in with **ASCOBOND AR 470** or **ASCOSEAL TAPE ROLL** or a pre mixed **ASCOSCREED** (formation of a groove having a triangle cross-section with 5-6 cm sides). In case of masonry walls, joints should be first filled in carefully, otherwise it is recommended to apply a cement mortar layer first improved with RMP. For sealing of basements in old buildings, any existing wall plastering should be removed to a height of up to 50cm above the water level and then proceed as above.

### 2. Application

**Powder part of ASCOFLEX II** (12.5 kg Part A) is added into the 5 kg of liquid (Part B) under continuous slow stirring to achieve smooth paste for brush application. The entire surface of the substrate should be dampen well, but without creating any water puddles. The material is applied by brush in two or more layers. Brushing must be in different directions i.e. if first coat is horizontal than second coat should be applied vertically.

### 3. Mixing Ratio

2.5 : 1 (Part A : Part B)

### 4. Coverage

75 ft<sup>2</sup> to 85 ft<sup>2</sup> per 2 coats for 17.5 Kg set

### Remarks

- i. Freshly coated surface should be protected from high temperature, rain and frost for 24 hours.
- ii. To curb the negative high pressure, it is recommended to use **ASCOGLASS FR.**
- iii. For the internal sealing on floorings, it is recommended to carry on final covering of the **ASCOFLEX II** with concrete, IPS or tiles.

### 6. Packaging

Available in 17.5 Kg Set.

### 7. Shelf Life

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

## 8. Health and Safety Guidelines

- i. Use personal protective equipment (PPE) to use **ASCOFLEX II** for storage and application
- ii. If it comes in contact with eyes, immediately wash eyes with plenty of water and seek medical advice.
- 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's 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](http://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.*