

TECHNICAL DATASHEET

ASCOFLEX II

Two Part Highly Elastic , Crack Bridging Waterproofing Membrane



PRODUCT INTRODUCTION

ASCOFLEX II is 2-part, UV Resistant Cementitious waterproof coating. It consists of selected a cement based polymer modified powder (component A) and special acrylic co polymer emulsion (component B). On curing it forms a seamless highly elastic and a tough membrane with strong adhesion and durable waterproofing.

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KEY FEATURES

1. This coating is allowed to apply in three or more layers for best result
2. It has an excellent adhesion with many Cementitious substrates
3. High elongation and crack-bridging ability
4. It can be applied to 24 hours old concrete, thereby giving immediate protection to the concrete
5. The final cured coating is breathable allowing moisture vapor transmission
6. Highly Resistance to water penetration and protects from humidity and dampness
7. Good bonding with slightly wet surfaces without priming
8. The final cured coating is safe for contact with potable water.

RECOMMENDED APPLICATIONS

1. Waterproofing of basements and 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 that suffer from expansion contraction or structural vibration including fine capillary cracks of terraces, water tanks, balcony, swimming pools, inverted roof and submerged structure.

TECHNICAL PROPERTIES

Aspect	Part A is specially graded free flowing grey powder Part B : Free flowing milky white liquid
Mixing Ratio (By Weight)	2.5 Part-A with : 1 Part -B : 0.3 Part Water
Mixed Density (30°C)	1.70 ± 0.05 Kg / l
Pot Life (30°C)	Around 30 Minutes
Touch Dry Time (30 °C)	50 ± 10 Minutes at 30 Degree Celsius
Re Coating Time (30 °C)	8± 1 Hours
Full Curing Time (30 °C)	7 Days (Depends on Season)
Crack Bridging	Up to 2 mm width
Permeability (BSEN 12390 part 8)	5 bar pressure
% Elongation (ASTM D412)	> 150 (28 days curing)
Tensile Strength (ASTM D 412)	2.5 ± 0.1 N/mm ² (28 days curing)
Tensile Adhesion Strength with Concrete (ASTM D 4541)	≥ 2.0 N/mm ² (28 days curing)
Toxicity	Non-toxic, safe with potable water contact

APPLICATION METHODS:

1. Surface Preparation

ASCOFLEX II can be applied on clean surfaces free of materials that might prevent bonding example: dust, cement laitance, loose particles, oil, grease etc. The success in the application depends on the right preparation of the underlay & use of the material. Water leaks should be plugged with ASCOGROUT. All cavities in existing concrete surface should be filled in and smoothed out using (ASCOBOND 450/ ASCOBOND AR 470: WATER: CEMENT) in ratio of 1:1.5:3 is recommended. After all loose aggregate has been removed and the surface has been well moistened. Existing cracks or work joints are opened longwise in an inverse "V" shape in a depth of about 1-2 cm and are subsequently filled with ASCOFILL & ASCOBOND AR 470. Corners like floor joints with vertical walls and coving area should be filled 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 carefully, otherwise it is recommended to apply a cement mortar layer with ASCOLITE's RMP. For sealing of basements in old buildings, any existing wall plastering should be removed to 50cm height above the water level and then above mentioned application process is to be followed.

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 application area should be moistened well, without leaving stagnant water. The substrate should be dab dry. The material is applied by stiff brush in 2 or more layers, depending on the water effect. Brushing must be in cross perpendicular directions i.e. If the first coat is horizontal then the second coat will be applied vertically. Each new coating is applied when the previous coating is touch dry.

3. Coverage

70 to 85 ft² per 2 coats for 17.5 Kg set

4. Remarks

- I. Freshly coated surfaces should be protected from high temperatures, rain and frost for at least 24 hours.
- II. For open terrace/roof or negative high pressures, it is recommended to use ASCOGLASS FR.
- III. For internal sealing on floorings, it is recommended the final covering of the ASCOFLEX II with concrete, IPS or tiles.

5. 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)

6. Packaging

17.5 Kg system pack (12.5 Kg polymerized cementitious powder + 5 Kg acrylic emulsion)

7. Shelf Life

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

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.