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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.

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

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

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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^2 to 85 ft^2 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)