

TRUBUILD AQUALOCK FLEXI

Premiere Acrylic Cementitious Waterproofing Coating



TECHNICAL DATA SHEET VER NO. 1.1

TRUBUILD AQUALOCK FLEXI is two-component, acrylic-modified, high performance, elastomeric, cementitious, waterproofing membrane coating particularly designed for concrete and masonry surfaces. The powder Part B is mixed with high build polymer liquid Part A. It forms a flexible and seamless waterproof membrane which acts as an excellent water barrier for concrete and masonry surfaces. This can be used for both positive and negative side waterproofing due to its high resistance to hydrostatic pressure. It also provides a lasting protection against efflorescence.

It complies to standards - CFTRI APPROVED & EN 12390-8:2019

ADVANTAGES



CFTRI APPROVED
NON-TOXIC



BEST IN CLASS
ELONGATION AND
CRACK BRIDGING ABILITY



EXCELLENT ANTI-
EFFLORESCENCE
CAPABILITY



EXCELLENT
HYDROSTATIC
PRESSURE RESISTANCE

- Can be easily applied by brush
- Excellent adhesion to concrete and masonry substrates
- Environmentally friendly - free from Volatile Organic Compound (VOC)
- Flexible coating
- CFTRI approved hence non-toxic



AREAS OF APPLICATION



APPLICATIONS

- Waterproofing of concrete roofs, parking decks, bathrooms, toilets, kitchen, balconies and planter box, etc.
- Swimming pools, water tanks and reservoirs, etc.
- Retaining walls and lift pits, etc.

AVAILABLE PACKING



12 kg



48 kg

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HOW TO USE

SURFACE PREPARATION

- All surfaces must be free from oil, grease, wax, dirt or any other form of foreign matter, which might affect adhesion. Spalled concrete must be removed completely and it should be repaired by using Trubuild Non-shrink grout HS and Trubuild BWP 222.
- Fill all the existing cracks up to 5 mm by making "V" groove and then filling it with Trubuild CFP 525/425. For cracks larger than 5mm use Trubuild WPL 333/ Trubuild BWP 222 for making polymer-modified mortar to repair.
- Coving should be done at junction to ensure continuity use WPL 333/BWP 222 to PMM.
- Substrate should be in "Saturated Surface Dry" (SSD) condition (damp, without standing water) before starting Trubuild Aqualock Flexi application.

APPLICATIONS

- Slurry can be applied by brush or trowel with the recommended coverage at the approximate rate of 1.8-2kg/m²/ 2 coats, to achieve 1.2-1.5 mm DFT (minimum two coat should be applied).
- Allow the slurry to cure for at least 4 -6 hours before applying a second coat
- After the application of second coat for providing mechanical key for the protective screed/ plaster, some coursed sand conforming to zone 2/ zone 3 should be sprinkled. Allow it to cure for min. 12 to 24 hrs.
- Once the second coat is cured, clean the second coat by with the help of soft broom/brush to remove excess sand before moist curing.
- For efflorescence– apply 2-3 coats of Trubuild Aqualock Flexi on clean bricks followed by plaster using Trubuild CPS 111.

MIXING

- Slowly add powder Part B to liquid Part A in a clean container and mix until a smooth and homogenous slurry mixture is achieved.
- Allow the mixed slurry to stand for 5-6 minutes for releasing entrapped air during the mixing, prior to application. Mixed material must be used within recommended pot life.

CURING

- For maximum protection, allow min. 12 to 24 hours curing time after the second coat. After application of the 2nd coat, allow the system to air cure for min. 5 to 6 hours. This should be followed by moist curing by sprinkling /spraying of potable water for 24 hours. After moist curing, the surface should be allowed to air cure for min. 3 to 5 days before covering it with screed.
- Trubuild Aqualock Flexi requires at least 7 days curing before any ponding test. For any water retaining structure, the final water should be filled after 7 days.

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TECHNICAL DETAILS

PROPERTIES	STANDARD	RESULTS
Mixing ratio	-	1:1.4 (Part A liquid:Part B powder) by weight
Set to touch time at 25-27°C (min.)	ASTM D1640:2018	45
Adhesion to concrete after 7 days (Mpa)	ASTM D 4541:2017	≥1
Tensile strength - on casting (N/mm ²)	ASTM D 412:2016	≥1
Elongation at break (%)	ASTM D 412:2016	>150
Crack bridging ability (mm)	EN 1062-7:2004	Up to 2
Rapid chloride penetration test (coulombs)	ASTM C 1202: 2019	<2500
Food grade certification	CFTRI certification	Pass
Toxicity	IS 6582:1972	Non -toxic
Water penetration at 5 bar pressure	EN12390-8:2019	NIL
Shore A hardness	ASTM D 2240:2015	70
Negative permeability	ASTM D-7088:2017	up to 4 bar
Anti-efflorescence	SS-500:2015	Pass

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VER NO. 1.1

THEORETICAL COVERAGE

- 1.8-2kg/m²/ 2 coats @ 1.2-1.5mm DFT (min 2 coats recommended).

NOTE – Coverage always depending upon type and quality of the substrate.

PRECAUTIONS AND LIMITATIONS

- Trubuild Aqualock Flexi is not for decorative treatment.
- Avoid application in afternoon and during strong winds. Do not add water in the mix under any circumstances. Apply only to sound, prepared substrates and surfaces which should be well dampened but free of surface water and leaks. Do not exceed maximum layer thickness.
- For waterproofing or damp proofing application, always use at least 2 coats to give a total thickness of between 1.2-1.5 mm. In areas of severe water penetration, three coats might be required.
- Additional coats may be required from negative side.
- Protect freshly applied material from freezing conditions, rains, winds, direct sunlight, etc.
- Avoid open to sky application during intermittent rain or on a substrate subjected to standing/ run off water.
- Trubuild Aqualock Flexi does not provide a trafficable finish. In case the roof needs to be made trafficable, a screed needs to be laid on the finished system followed by a suitable bonding layer.
- New concrete substrate should be fully cured min. 28 days before application of Trubuild Aqualock Flexi.

STORAGE & SAFETY INSTRUCTION

- Store in an unopened condition away from direct sunlight.
- Use mask, nose cover and hand gloves during application.
- Clean hand with soap water after application.
- Material should be protected from moisture and kept dry.
- Storage temperature 2 - 40°C

CLEANING

Trubuild Aqualock Flexi can be removed from tools and equipment immediately after use with clean water. Hardened material can be removed mechanically.

SHELF LIFE

12 months from the date of manufacturing

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