

AQUALOCK

Two-Part Acrylic Cementitious Waterproof Coating

ASTRAL

TRUBUILD™

TECHNICAL DATA SHEET VER NO. N.1

PRODUCT DESCRIPTIONS

TRUBUILD AQUALOCK is two-component, acrylic-modified, flexible, cementitious, liquid-applied waterproofing membrane particularly designed for concrete and masonry surfaces, which is supplied in ready to mix kits (two parts). When powder part is mixed with acrylic-modified emulsion, it forms a flexible and seamless waterproof membrane and acts as an excellent water barrier to concrete and masonry surfaces.

FEATURES & ADVANTAGES



CFTRI APPROVED
NON-TOXIC



BEST IN CLASS
ELONGATION AND CRACK
BRIDGING ABILITY



EXCELLENT
WATERPROOFING

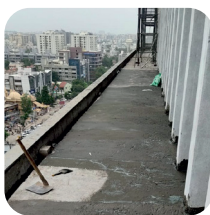
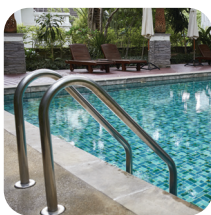


EXCELLENT
HYDROSTATIC
PRESSURE RESISTANCE

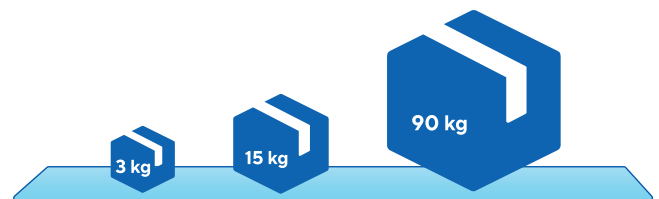
- Non-toxic
- Flexible
- Can be applied on damp surface
- Easily applied by brush or trowel
- Excellent adhesion to concrete and masonry substrates

- Can withstand positive hydrostatic pressure up to 5 bar and negative hydrostatic pressure up to 3 bar
- Environmentally friendly-free from Volatile Organic Compounds (VOC)

AREAS OF APPLICATION



PACKAGING



• Roofs, parking decks, bathrooms, toilets, kitchen, balconies and planters • Swimming pools, water tanks and reservoirs • Concrete foundations, basements wall and lift pits • Any other concrete, cement or masonry surface that is subject to damage from moisture

METHOD OF APPLICATION

SURFACE PREPARATION:

- Allow new concrete and masonry substrate to fully cure prior application
- 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 sound before applied
- All the corners to be prepared by making "Coving" by using suitable polymer-modified mortar for providing a continuation film of the waterproof coating
- Substrate should be reaching a "Saturated Surface Dry" (SSD) condition (damp, without standing water)

MIXING:

- Using mechanical mixer, slowly add powder part to liquid part in a clean container until a smooth and homogenous slurry mixture is achieved
- Allow the mixed slurry to stand for 5-10 minutes for releasing air-trapped during the mixing prior to application. Mixing material must be used within recommend pot life(40-45min).

APPLICATION:

- Slurry can be applied by brush or trowel.
- Do not dilute with water.
- Recommended coverage rate is approximately 1.65-1.75kg/m²/2 coat (minimum two coat should be applied).
- Allow the slurry to cure for at least 4-6 hours before applying a second coat.

CURING:

- After application of 2nd coat, allow the system to air cure for 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 3 to 5 days before covering it with screed.
- Trubuild Aqualock requires at least 7 days curing before filling spas, swimming pools and water tanks with water as well as mock-up of ponding test the mixed material must be used within recommend pot life(40-45min).

TECHNICAL PROPERTIES

S.NO.	PROPERTIES	STANDARD	RESULTS
1.	Mixing ratio (by weight)	-	1:2 (Part A liquid: Part B powder)
2.	Bulk density of powder	In house test	1.6-1.8
3.	Mixed density of wet mix, gm/ml	In house test	1.7-1.80
4.	Set to touch time at 25°C	In house test	45 min.
5.	Water absorption	In house test	< 6%
6.	Adhesion to concrete after 7 days	ASTM D 4541	≥ 1 MPA
7.	Positive hydrostatic pressure	EN-12390 Part-8	Pass
8.	Tensile strength-on casting	ASTM D 412	up to 1 MPA
9.	Elongation at break (%)	ASTM D 412	Min. 60%
10.	Crack bridging	EN 1062-7	Up to 1mm
11.	WFT* (2 coats)	-	1000-1200 micron
12.	DFT* (2 coats)	-	800-1000 micron

PRECAUTIONS

- Trubuild Aqualock is not a decorative treatment and may display signs of “blooming” after rain or in damp weather. This does not affect the performance of the coating, in anyway.
- Avoid application in direct sun and/or strong wind. Do not add water in any circumstances. Apply only to sound, prepared substrates and surfaces should be well dampened but free from 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 DFT between 0.8 – 1 mm. In areas with severe water penetration, three coats might be required.
- Protect freshly applied material from freezing conditions, rains etc. Avoid application that is open to sky during intermittent rain.
- Aqualock 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.

COVERAGE

1.65-1.75 kg/m²/2 coats (min 2 coats recommended). Civerage always depending upon the type and quality of the substrate.

STORAGE

- 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.
- Store between 2-40 °C

CLEANING

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

SHELF LIFE

12 months from the date of manufacturing

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