

AQUALOCK FLEXI

Premium Acrylic Cementitious Waterproofing Coating

ASTRAL

TRUBUILD™

TECHNICAL DATA SHEET VER NO. N.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

FEATURES & ADVANTAGES



CFTRI APPROVED
NON-TOXIC



BEST IN CLASS
ELONGATION AND CRACK
BRIDGING ABILITY



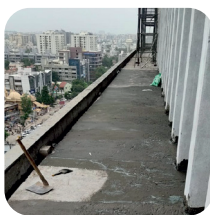
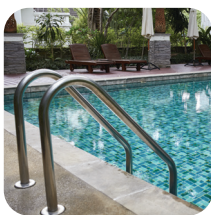
EXCELLENT ANTI-
EFFLORESCENCE
CAPABILITY



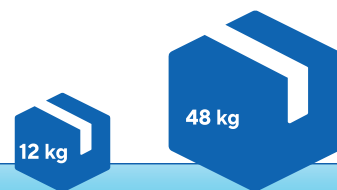
EXCELLENT
HYDROSTATIC
PRESSURE RESISTANCE

- 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



PACKAGING



- 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.

METHOD OF 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 removed completely and it should be repaired by using Trubuild SBR 333/ Buildcrete.
- Fill all the existing cracks up to 5 mm by making "V" groove and then filling it with Trubuild Crackfill Paste/Powder. For cracks larger than 5mm use Trubuild SBR 333/Trubuild Buildcrete for making polymer-modified mortar to repair.
- Coving should be done at junction to ensure continuity use SBR 333/Buildcrete to PMM.
- Substrate should be in "Saturated Surface Dry" (SSD) condition (damp, without standing water) before starting Trubuild Aqualock Flexi application.

APPLICATION:

- 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.

TECHNICAL PROPERTIES

S.NO.	PROPERTIES	STANDARD	RESULTS
	Mixing ratio	-	1:1.4 (Part A liquid:Part B powder) by weight
1.	Set to touch time at 25-27°C (min.)	ASTM D1640:2018	45
2.	Adhesion to concrete after 7 days (Mpa)	ASTM D 4541:2017	≥1
3.	Tensile strength - on casting (N/mm ²)	ASTM D 412:2016	≥1
4.	Elongation at break (%)	ASTM D 412:2016	>150
5.	Crack bridging ability (mm)	EN 1062-7:2004	Up to 2
6.	Rapid chloride penetration test (coulombs)	ASTM C 1202: 2019	<2500
7.	Food grade certification	CFTRI certification	Pass
8.	Toxicity	IS 6582:1972	Non-toxic
9.	Water penetration at 5 bar pressure	EN12390-8:2019	NIL
10.	Shore A hardness	ASTM D 2240:2015	70
11.	Negative permeability	ASTM D-7088:2017	up to 4 bar
12.	Anti-efflorescence	SS-500:2015	Pass

PRECAUTIONS

- 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.

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.

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.

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

DISCLAIMER: This technical data sheet replaces all previous versions of it from the immediate effect. The information, and, in particular, the recommendations relating to the application and end-use of Astral Ltd, construction chemical products, are given in good faith based on our knowledge and experience of the products when properly stored, handled and applied under suitable favourable conditions in accordance with application instructions recommended in product technical data sheet. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. For the products on which company is offering warranty, please refer to warranty document to know entire terms and conditions. The same can be availed on request or from company website. The values mentioned in the above tables in technical data sheet are obtained in controlled lab conditions when tested properly by competent laboratory. Tolerance up to five to ten percentage on the lower side from the above values are allowable. Astral Ltd. reserves the right to change the properties of its products without notice. The end user of the product must test the product's suitability for the intended application and purpose. Astral Ltd will not bear any responsibilities on the product failure if it is wrongly positioned or if improper application methodology is adopted by the user or the applicator. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product technical data sheet for the product concerned, copies of which will be supplied on request. No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, customer is responsible for determining whether products and the information in this document are appropriate for the customer's use and for ensuring that the customer's workplace, and disposal practices are in compliance with applicable laws and other governmental enactments.