

TRUBUILD AQUAPOXY

WATER-BASED EPOXY COATING
FOR DAMPNESS PREVENTION



TECHNICAL DATA SHEET

Trubuild Aquapoxy is a high performance, two-component epoxy resin based waterproofing compound. Part A consists of epoxy resin and Part B consists of curing agent. After mixing both the parts, it can be thinned down with water. It has good chemical resistance, adhesion, hardness, toughness and mechanical strength.

One of the major advantages of Trubuild Aquapoxy over solvent-based epoxy is that it can be applied on a damp surface also. It is non-toxic, hence eco-friendly.

FEATURES & ADVANTAGES



Excellent resistance to water ingress



Compatible for multiple surfaces



CFTRI certified



Excellent resistance to efflorescence

- Excellent vapour barrier
- Excellent Porosity sealer
- Non- Toxic, hence eco friendly
- Anti-fungal & microbial properties
- Can be applied on Damp surface
- Can exhibit Positive water pressure up to 10 bar
- Can exhibit Negative water pressure up to 0.5-1 bar
- When Mixed with OPC white cement, crack can be filled
- Can be used for priming concrete for PU coatings
- Can also be used on stone, tiles & asbestos sheet etc.
- Water Dilutable
- Economical
- Easy cleaning
- Odourless
- Paintable



AREAS OF APPLICATION



- Underground/overhead tanks, hatcheries & aqua farms, breweries & food processing industries
- Toilet and kitchen walls, anti-efflorescence coating for walls.
- Primer before paint roof coatings & floor coatings, used in food & drug industries.
- When mixed with cement, it can be used for crack filling on cementitious substrate & grouting holes created by tie rod in RCC while casting.
- Can be used on Asbestos & GI metal sheet

AVAILABLE PACKING



1 kg

TRUBUILD AQUAPOXY

WATER-BASED EPOXY COATING
FOR DAMPNES PREVENTION



TECHNICAL DATA SHEET

HOW TO APPLY

Surface Preparation:

Surface preparation is the first and the most important step before the application to get the results and to avoid failure. The substrate must be cleaned and free of dirt, paint, oil, grease, sludge, blistered & loose plaster, fungus & moss etc. by thorough wire brushing followed by sanding with emery paper. This is recommended and all the joints. Remove the dust by compressed air, a paint brush, or wiping with a water-soaked cloth. Fill all the cracks up to 3 mm by Trubuild CFP 425 and greater than 3mm by PMM. All the construction joints should be treated with PMM using Trubuild WPL 333.

Mixing:

The Part A (Base) & Part B (Hardener) components should be mixed separately in their individual packs. The entire content of Part-B (hardener) should be poured into Part-A (base) & thoroughly mixed using a slow-speed stirrer/mixing paddle for 5 minutes. Then, add water in the below-mentioned ratio & mix it for another 5 minutes before application until it becomes homogeneous.

Sr. No.	Application	Part A, by wt.	Part B, by wt.	Water by wt.
1	Concrete/cementitious surface	1	1	1
2	Tiles/ Metal Roof GI sheet	1	1	0.5

Application:

RCC Tank Waterproofing Application: After completing waterproofing with Aqualock Flexi on the RCC surface, followed by plastering, allow the plaster surface to cure completely. Then, apply two to three coats of Aquapoxy using a brush, with each coat applied perpendicular to the previous one at an interval of 8–10 hours. Allow the final coat to cure for at least 24 hours for hard curing.

Note: For negative-side applications, three coats are recommended. Always use a water-based exterior coating as a topcoat when applied on walls. For high-gloss tiles, use a grinder to remove the gloss before application to ensure better adhesion. Curing time may vary depending on ambient temperature. In high humidity, it may take 3–5 days for complete curing. Once fully cured, clean the surface thoroughly with plenty of water 2–3 times before storing water in the tank.

Putty Preparation: In case of persistent dampness problems use a coat of putty prepared with Trubuild Aquapoxy as directed below. Stir the contents of both base and hardener individually to achieve uniform consistency for each. Mix base and hardener together and mix thoroughly to achieve homogeneous mixture. Mix 1 part of prepared Trubuild Aquapoxy with one part of white cement and stir well to achieve a proper consistency of putty.

Efflorescence Treatment of wall: Remove all the plaster along the wall 1 foot above the top point of efflorescence on wall, then clean the brick surface and its joint mortar with fresh portable water and then apply two coats of Trubuild Aqualock flexi followed by Polymer plaster with the help of Trubuild WPL 333. Once the plaster is complete apply two to three coats of Trubuild Aquapoxy followed by any paint coating. For application of putty, it is recommended to sprinkle the sand on the last coat of Aquapoxy and let it dry for 24 hours before proceeding with putty application.

Crack filling: Open the cracks with the help of a grinder and make a V-groove. Make the surface dust-free by using water and an air blower. Then apply 1 coat of Trubuild Aquapoxy in the crack and then fill it with epoxy putty made from Trubuild Aquapoxy in the crack with a stiff consistency with approx. (B:H:Water:Cement=1;1:1:5) by wt., within half hour and leave it for 4–6 hour and then apply single coat of Trubuild Aquapoxy upon the crack and leave it for 24 hours. Note: the consistency can be changed as per requirement.

TECHNICAL DETAILS

PROPERTIES	STANDARD	RESULTS	TEST METHOD
Appearance	Visual	Opaque	In house
Colour	Visual	Off white	In house
Consistency after mixing	Visual	Free flow	In house
Fungal-microbial resistance	Visual	Excellent	In house
Pot Life at 30°C	Minutes	Approx. 120	In house
Efflorescence resistance	Visual	No yellowing / blisters	SS 500-2015

TRUBUILD AQUAPOXY

WATER-BASED EPOXY COATING
FOR DAMPNES PREVENTION



TECHNICAL DATA SHEET

PROPERTIES	STANDARD	RESULTS	TEST METHOD
Water absorption, 24 hr	%	Nil	Rilem Tube
Surface Dry Time at 30°C	Minutes	Approx. 45	ASTM D 1640-2014
Hard Dry time at 30°C	Hrs	24	ASTM D 1640-2014
Interval between two coats 30°C	Hrs	6-8	ASTM D 1640-2014
Pull off Adhesion to Concrete (B: H: W = 1: 1: 1)	N/mm2	Min.1.5, Excellent	ASTM D 7234-2022
Pull off Adhesion to Tiles (B: H: W = 1: 1: 0.5)	N/mm2	Min.1.5, Excellent	ASTM D 7234-2022
Pull off Adhesion to Metal (B: H: W = 1: 1: 0.5)	N/mm2	Min.1.5, Excellent	ASTM D 4541-2022
Depth of Water Permeability @10 Bar & Negative Hydrostatic water pressure up to 3.5 Bar	mm	Nil, Nil, Pass	EN 12390-8-2019 & ASTM D 7088-2017
Water Vapor Transmission	g/m ² .day	1.14, Excellent	ASTM E 96-2024
Food Grade - CFTRI certified	mg/in ²	0.054, Pass	USFDA - 175:300, August-2024
Chemical resistance spot test for 24 Hrs	-	-	-
Alkali Solution- 5 % NaOH	Visual	No Colour Change & No Blister Observed	ASTM D 1308-2020
Acid Solution - 5% HCL	Visual	No Colour Change & No Blister Observed	ASTM D 1308-2020
Soap Solution	Visual	No Colour Change & No Blister Observed	ASTM D 1308-2020
Detergent Solution	Visual	No Colour Change & No Blister Observed	ASTM D 1308-2020
Lubricant Oil	Visual	No Colour Change & No Blister Observed	ASTM D 1308-2020

HANDLING PRECAUTIONS

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For more details, please refer MSDS.

STORAGE

Container should be stored in a dry and cool area. Protect the material against direct sunlight. Storage temperature should be 10 to 30 °C, Product should remain in their original, unopened containers

SHELF LIFE

18 months from date of manufacture when stored in a cool and dry place.

COVERAGE

Approx. 70-80 sqft/kg/coat for waterproofing
Approx. 20-25 sqft/coat / 3 kg mix for wall putty

Note:

- Coverage may vary due to porosity and undulation of the substrate.
- In case the putty becomes stiff, a little water can be added to attain right consistency

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, favorable conditions in accordance with application instructions recommended in the 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 the company is offering a warranty, please refer to the warranty document to know the entire terms and conditions. The same can be availed on request or from the company website. The values mentioned in the above tables in the technical data sheet are obtained in controlled lab conditions when tested properly by a competent laboratory. Tolerance up to five to ten percent 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 responsibility for 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, the 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.



ASTRAL LIMITED

CIN: U24295GJ2009PLC058120

Registered Office: 207/1, Astral House, B/h Rajpath Club, Off S.G. Highway, Ahmedabad-380059, Gujarat, India.

P: +91 79 6621 2000 | F: +91 79 6621 2121

E-mail: customercare@astraladhesives.com Website: www.trubuild.in