

TRUBUILD APC-225

Acrylic Polymer Coating

TECHNICAL DATA SHEET

VER NO. 1.5



Trubuild APC-225 (Acrylic Polymer Coating) is an acrylic polymer-based coating which is used in conjugation with cement as a coating for waterproofing and bonding application.

APPLICATIONS

Trubuild APC-225 is used as protective coating for concrete structures like sunken portion, toilets, balcony, chajja, basement, terrace, and concrete repairs. It can be used for water retaining structures & general concrete repairs. It can be used for Protection of concrete against corrosion, salt attack etc.

ADVANTAGES

- Economical
- Can be used in both horizontal & vertical surface
- Excellent adhesion on various substrates
- Reduces or prevents salt attack
- Can be used as waterproofing coating
- Can be used as bonding agent

STORAGE

Product should be stored in a dry place in their original, properly closed containers at temperature between 2 - 40°C. Partially emptied container should be closed immediately.

HOW TO USE

Surface Preparation

The surface should be clean and dried before application. It should be free from dust, unsound material, loose plaster, oil, paint, grease, algae and corrosion deposits. Fill all the cracks up to 5 mm by Trubuild CFP 425 and above by making PMM using Trubuild WPL 333.

Waterproofing Coating

Make a slurry of 1:2 ratio of Trubuild APC-225 and cement and apply first coat on concrete surface. Make sure that concrete surface is in SSD condition before application of first coat. After 5 -6 hours of application of first coat, apply second coat of Trubuild APC-225 coating. 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 and there after lay the protective screed to avoid mechanical damage. Coverage: 1.125kg mix/m²/2coats

Render & Mortars

Add 10-15% of Trubuild APC-225 by weight of cement, in a 1:3 cement and sand mortar for repairing of patch work as per the suitability.

TECHNICAL DETAILS

S.N.	PROPERTIES	UNIT	RESULTS	RESULTS
A.	Liquid Sample Properties			
1	Physical State	Visual	Low Viscous liquid	---
2	Appearance	Visual	Opaque	---
3	pH	--	7.6	ASTM E 70
4	Specific Gravity	--	1.02	ASTM D 1475
5	Solid Content	%	29.1	ASTM D 2697
B.	Tests on Mixed Mortar			
1	Compressive Strength (1:3 Cement sand Mortar with 10% dose of Trubuild APC-225)	N/mm ²	32.6	ASTM C 109-21
2	Tensile Strength (1:3 Cement sand Mortar with 10% dose of Trubuild APC-225)	N/mm ²	2.68	ASTM C 307-18
C.	Tests on Mixed Product (Trubuild APC -225: Cement = 1 : 2)			
1	Slant Shear Strength	Slant Shear Strength	11.2	ASTM C 1042-99
2	WFT - 2 Coats	WFT - 2 Coats	375	ISO 2808:2019
3	DFT- 2 Coats	DFT- 2 Coats	295	ISO 2808:2019
4	Pull off Adhesion	Pull off Adhesion	1.65	ASTM D 7234-2021
5	Water Absorption @ 15 min	Water Absorption @ 15 min	Nil	Karsten Tube
6	Water Absorption @ 30 min	Water Absorption @ 30 min	Nil	
7	Water Absorption @ 60 min	Water Absorption @ 60 min	Nil	
8	Water Absorption @ 4 Hrs.	Water Absorption @ 4 Hrs.	Nil	

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Mixing proportion: 2 kg cement: 1 kg Trubuild APC 225 Polymer

Material	Two Coat on concrete kg/m ²
Cement	0.750
APC-225	0.375

Trubuild APC 225 Brush Topping

Material	Quantities of Material in Kg for one cubic meter	1 sq.m. of 1.5mm Thickness
Cement	860	1.30
Trubuild APC 225	430	0.65
Fine Silica Sand	860	1.30
Total Weight in Kg	2150	3.25

COVERAGE

- *1.125kg mix/m²/2 coats
- *0.375 kg APC/m²/2 coat
- 25-30 Sq.ft/kg/2 coat
- *Depending upon level and porosity of the substrate

PRECAUTION AND LIMITATION

- Trubuild APC 225 should not be used in isolation of cement
- Trubuild APC 225 shall be applied to the substrate temp above 10°C to below 40°C
- Surface should be in SSD condition. Neither apply fully dry surface nor standing water
- Ensure to provide a protective plaster over the final coat to avoid mechanical damage
- Avoid coating in intermittent of rain

HANDELING PRECAUTIONS

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product data sheets and the brochure "Hygienic precautions for handling plastics products".

SHELF LIFE

24 Months

PACKING

10 kg & 20 kg & 50 kg

IMPORTANT: 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 Limited 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 as per standard. Astral Limited reserves the right to change the properties of its products. The end user of the product must test the product's suitability for the intended application and purpose. Astral Limited will not bear any responsibilities on the product failure if it is wrongly positioned or if improper application methodology 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 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 Customer's use and for ensuring that Customer's workplace, and disposal practices are in compliance with applicable laws and other governmental enactments.



ASTRAL LIMITED

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 CIN: U24295GJ2009PLC058120
E-mail: customercare@astraladhesives.com Website: www.astraladhesives.com



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