



**ARMSTRONG CHEMICALS PVT. LTD.,**  
Bengaluru  
An ISO 9001 Certified Company

# RAINPROOF<sup>®</sup> FRC 611

Formerly Know as RAINSEAL FRC

**Fibre Reinforced Acrylic Elastomeric, Abrasion Resistant  
Solar Reflective Heat Reducing Waterproof Coating**

## DESCRIPTION :

**(Complies with ASTM - 836/89; D 2240; D 4541; D412; G154 & E96)**

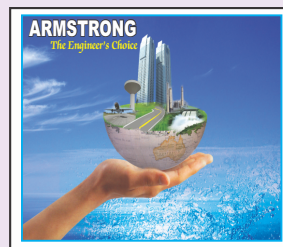
RAINPROOF FRC 611 is single component fibre reinforced acrylic elastomeric abrasion resistant solar reflective heat reducing waterproof exterior coating which is designed as a membrane coating to improve the elongation properties to bridge the existing and future cracks over a wide temperature.

It is a self cured component after application which forms an impervious, tough, hard and abrasion resistant coating, It has exceptional strength and inflammability that prevents peeling, fungus, algae growth.

This provides a barrier that can withstand expansion and contraction movements due to heat buildup on the roof surfaces. An aliphatic elastomeric film formation coating

provides tough, durable flexible membrane with high levels of resistance to UV rays sunlight, frost, rainfall etc. Reduces the temperature between 8-10°C, being an insulation based acrylic coating, provides carbon dioxide penetration.

Basically it is in white multi layer system of waterproofing Solar reflective coating (3 layers) is recommended for various types of roof surfaces, like concrete / asbestos / metal on both existing and new surfaces.



## RECOMMENDED FOR :

Roofs, Terraces, ACC / Galvanised Roofing sheets,

Over existing cementitious waterproofing treatments like sound brick - bat coba, concrete screeds, Bitumen treated surfaces, any Armstrong's coatings, etc.

## FEATURES :

- ❖ Provides excellent Solar Reflection and re-radiated heat back to atmosphere.
- ❖ Crack bridging & Waterproofing.
- ❖ Abrasion Resistant and suitable for foot traffic.
- ❖ Long - term durability : Excellent UV resistance and all weather proof.
- ❖ Solar reflection leads to energy saving hence reduction in electrical consumption.
- ❖ Forms a breathable film, enhances durability of the structures.
- ❖ Non-toxic water based system - eco friendly.

## TECHNICAL INFORMATION :

S.No.	Property	Typical Value	Test Method/Confirm to
1.	Appearance of the Product	Viscous liquid	
2.	Colour / Consistency	White	In our Lab Test
3.	Complete curing time at 30°C	4 to 5 days	In our Lab Test
4.	Re-coatability time at 30°C	4 to 5 Hrs	In our Lab Test
5.	Solids content %	69 (+ / -1)	ASTM-D-1076
6.	Touch dry at 25°C	Approx. 2 Hrs.	In our Lab Test
7.	Density	1.30 gm. / cc (+/- 0.05)	ASTM-D-1455-16
8.	Tensile strength	4.3 N/mm <sup>2</sup>	ASTM-D-412 : 2002
9.	Tear Strength	>15 N/mm <sup>2</sup>	ASTM-D-1004 : 76
10.	Elongation at Break	200%	ASTM-D-638 : 2002; ASTM D12
11.	UV Resistance	2000 Hrs No. deterioration. No color fade	ASTM-G-154 : 2000
12.	Solar Reflectivity Index (SRI)	106	ASTM-E 903
13.	Dry peel adhesion, lbs /sq.in	65	ASTM-C-297
14.	Application Temperature	5° to 50°	In our Lab Test
16.	Adhesion strength N/mm <sup>2</sup>	> 1.5 N/mm <sup>2</sup>	ASTM D 4541: 2000
17.	Crack Bridging	No Cracks upto 2 mm width	ASTM-C-836 : 1995
18.	Water Permeability	No leak @ 7 bar	ASTM - C - 297 & BSEN 12390 Part 8
19.	Dry Film thickness at 1 Kg./m <sup>2</sup>	680 microns	
20.	Hardness Shore A	80	ASTM D2240-2022
21.	Resistance to Algae Growth	Passes	ASTM D 5589-97
22.	Water vapour transmission	6.0 g/m <sup>2</sup> h	ASTM E 96



## METHOD OF APPLICATION :

**Surface Preparation :** ★ Prepare the surface thoroughly by cleaning , washing and removing dust , dirt, oil grease and loose particles. ★ Surface cracks must be filled with Polyurethane sealant - ROOFEXSEAL PU / Polysulphide Sealant -ROOFEXSEAL PS or polymer modified mortar in case of wider cracks / disturbed areas, if required waterproofing.

## APPLICATION :

**DIRECTIONS :** As a primer coat application dilute RAINPROOF FRC 611 with water 2:1 ratio wherever necessary. Can be diluted upto 20% of water and recommended to apply by brush/sprayer. Two coats are recommended for dependable excellent waterproofing. Can be mixed with any colour pigments as per the choice. To increase the mechanical properties of the coating as per the site conditions, recommended to use Fibre Mesh / Geo Fabric, after primer coat, later first coat has to follow on that. Over that another two coats recommended.

**ADVANTAGES :** ★ High performance, fibre reinforced Acrylic elastomeric liquid membrane ★ Excellent abrasion resistance ★ Cured film tough, hard coating ★ Improve the elongation properties to bridge the existing and future cracks over a wide temperature range ★ It develops high breaking strength with good puncture resistance ★ Provides excellent bonding with rubberized, bituminous & polyurethane coatings ★ High resistance to UV ★ Provides jointless and seamless membrane waterproofing ★ Reflects the sunlight, thus reduces the room temperature by 8 to 10°C ★ Excellent resistant to most diluted acids and alkalies. Recommended to Roofs, Terraces, Acc / Galvanised Roofing Sheets, Over Existing Cementitious/Waterproofing Treatments Like Sound Brick-bata Coba, Concrete Screeds, Bitumen Treated Surfaces, Any Armstrong's Coatings Etc.

## PRECAUTIONS & LIMITATIONS :

The product recommended only for light foot traffic and not for movement of machinery or equipments.

To achieve the full proof waterproofing, follow as mentioned in surface preparation and all parapet walls should be covered with RAINPROOF FRC 611.

**COVERAGE :** 1 Ltr. / 60 Sft. / Coat, Mixing with 20% of water.

**NOTE :** For more durability and abarsion resistance, allowed to use upto 1.6 liters / Sq. Mtr. if site requires

**PACKING :** 1, 5, 10, 20 & 210 Ltrs

**SHELF LIFE :** 2 Years from the date of manufacturing.

**STORAGE :** Store in a cool and dry place.

## HEALTH & SAFETY PRECAUTIONS :

**Skin contact :** Wash skin with soap & water.

**On eye contact :** immediately splash eyes with plenty of water, consult physician if irritation persists.

Whilst **ARMSTRONG CHEMICALS PVT. LTD.** strives to ensure that any advice, information or recommendation given are appropriate and correct. It cannot accept any liability directly or indirectly arising out of the use of products since the method and place of application of the products are beyond its control.



**Manufacturers :**  
**ARMSTRONG CHEMICALS PVT. LTD.**

An ISO 9001 : 2015 Certified Company



36/1, G-5, New International Airport Road, Ganga Nagar, BENGALURU - 560 032.  
E-mail : [armstrongchemicals@gmail.com](mailto:armstrongchemicals@gmail.com); Web : [www.acpl.live](http://www.acpl.live) | [www.armstrongchemicals.in](http://www.armstrongchemicals.in)  
Please Contact for Customer Care Information : **08095621122** Toll Free No. **1800 103 2034**

Authorised Distributor / Stockist

**ARMSTRONG CHEMICALS**  
**TRUSTED AND ACCLAIMED FOR ITS**  
**MULTIPLE ACTION PERFORMANCE**

