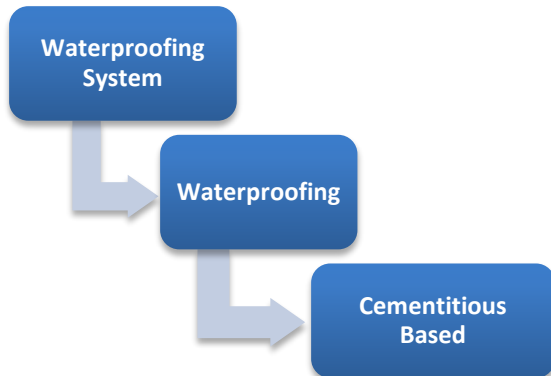


## FAMILY TREE



## PRODUCT DESCRIPTION

Cementitious based waterproof coating formulated with modified polymers and carefully selected materials resulted in flexible coating solution.

It is specially designed to be used on many common concrete construction substrates.

It is specially designed to suit several common applications.

It is suitable for internal and external usages.

## FIELD OF APPLICATION

<b>Area Type</b>	: <input checked="" type="checkbox"/> Dry	<input checked="" type="checkbox"/> Semi-wet	<input checked="" type="checkbox"/> Submerged
<b>Area Location</b>	: <input checked="" type="checkbox"/> UV Resistant	<input checked="" type="checkbox"/> Below grade	<input checked="" type="checkbox"/> Roof Decks
	<input checked="" type="checkbox"/> Swimming Pool	<input checked="" type="checkbox"/> Fountains	<input type="checkbox"/> Potable Water Tanks
	<input checked="" type="checkbox"/> Planter Boxes	<input checked="" type="checkbox"/> Kitchen	<input checked="" type="checkbox"/> Bathrooms
<b>Type of Application</b>	: <input checked="" type="checkbox"/> Horizontal	<input checked="" type="checkbox"/> Vertical	
<b>Substrates</b>	: <input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Cement Mortar	<input checked="" type="checkbox"/> Screed
	<input checked="" type="checkbox"/> Plaster	<input type="checkbox"/> Gypsum Board	<input type="checkbox"/> Cement Board
	<input type="checkbox"/> Plaster Board	<input type="checkbox"/> Wood	

## PROPERTIES

- Excellent adhesion.
- Breathable.
- Good resistance to carbon dioxide and chloride diffusion.
- Single component, just add water at site.
- Non-toxic.
- Chloride free.
- Minimal surface preparation required.

## PREPARATION

<b>Working Conditions</b>	: 5° to 35°C.
<b>Tools / Equipment</b>	: Mechanically powered mixer, clean plastic mixing container, brush.
<b>Substrate</b>	: Clean thoroughly and ensure that it is dry and free from dust, oil, grease, paints or any other loose material that might cause de- bonding with the surface. Special considerations to all newly poured cement based substrates. Ensure that substrates are sufficiently cured, dimensionally stable, shrinkage and structural strain movements free and stable. It is recommended to clean the surface using high pressure water jet.
<b>Priming</b>	: No priming is required. Surfaces to be pre-soaked with clean & fresh water prior the application. If High Porous surfaces should be primed with NASA Bond 200 Primer at the rate of 5 m <sup>2</sup> /litre and allowed to dry before applying the first coat.
<b>Joints</b>	: In general, the product shall not be placed above expansion or construction joints. NASA Flexseal shall be used to manipulate the joints.

## MIXING

<b>Ratio</b>	: Mix one bag of 25 kg with(6.6 – 7.5) litres of clean water.
<b>Mixing Speed</b>	: 400 - 600 rpm.
<b>Process</b>	: Add the liquid part to the mixing container. Start the mixer and add the powder slowly while mixing. Keep mixing the paste for a period not less than 3 minutes after the addition of the

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powder and until a consistent, homogenous and lumps free mixture is achieved. Stop the mixer and allow the paste to rest for a period of 2 – 3 minutes. Start the mixer and remix the paste for a period of 1 minute before the usage.

**Points of Attention** : Do not rework stiff material by adding more water.

## APPLICATION

**Application Method** : By brush / Roller.

**Coating Thickness** : 1 mm per coat.

**Coverage** : Approximately 8 m<sup>2</sup> / 25 kg for two coat @ 2 mm thickness. Recommended 2 coats. Actual coverage depends on porosity and texture of the substrate.

**Position** : The described process is suitable for vertical and horizontal applications.

**Priming** : No priming is required. Surfaces to be pre-soaked with clean & fresh water prior the application. If High Porous surfaces should be primed with NASA Bond 200 Primer at the rate of 5 m<sup>2</sup>/litre and allowed to dry before applying the first coat.

**Process** : If priming is carried out, wait until there is no standing water to the surface. Stir the product well. Apply the first coat while the surface is still damp. Apply using a short stiff bristle brush or roller at a minimum of 1 mm thickness per coat. Maintain the same direction of application horizontal or perpendicular. Do not apply random directions. Protect from dust, debris and traffic. Wait until completely dried. Approximate drying time is 2 - 6 hours. Apply the second coat in perpendicular direction to the first coat direct. Second coat can be rubbed down with a soft dry sponge. Spray or trowel application is acceptable provided the mixing ratio is adjusted to achieve the right consistency. It is recommended that the application over hollow blocks or highly porous areas to be coated with minimum three coats at a total thickness of 3 mm.

**Curing** : The finished surface should be protected from high wind and direct sunshine. Keep the treated area moist for 3-4 days after application. After 4 days, water ponding test maybe carried out.

**Cleaning** : All tools / equipment shall be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically with Solveteck.

## PACKING

**Standard Package** : Available in 25 Kg / set .

**Custom Package** : Special packages can be arranged for large requirements .

**How to Order** : Specify the Product Name followed with a hyphen and package size

## STORAGE CONDITION

**Shelf Life** : 12 months from the date of manufacturing.

**Temperature** : 2°C and 50°C.

**Points of Attention** : Store in shaded area and properly sealed in its original packing.

## TECHNICAL PROPERTIES

PROPERTY	STANDARD	VALUE
<b>Standard</b>	ASTM D4541, BS EN 12350-6, BS 6920-1, BS 6319-3 & BS 188120-8	
<b>Testing Conditions</b>	Tests were carried out in Apollo R&D laboratory @ 25°C	
<b>Component</b>	Single component	
<b>Form</b>	Powder	
<b>Colour</b>	Grey	
<b>Fresh Wet Density</b>	BS EN 12350-6	2.00kg/litter ± 0.05
<b>Toxicity</b>	BS 6920-1	Non-Toxic
<b>Working Time</b>	30-40 mins	
<b>Setting Time</b>	3 - 4 hrs	

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# Apollo Proof R310

Apollo Proof R310 – 25 kg – BS/ASTM

Single component, cementitious waterproofing coating –  
General purpose

<b>Flexural Strength</b>	BS 6319-3	4 N/mm <sup>2</sup> at 28 days
<b>Initial Surface Absorption</b>	BS 188120-8	> 90% reduction over control
<b>Bond Strength</b>	ASTM D4541	1 N/mm <sup>2</sup> at 28 days

## ATTENTION

**PPE** : It is recommended to use full PPE while working with the product to avoid any possibility of irritation to skin or eyes. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary

**Hazardous Classification** : Non-Hazardous

**Fire** : Non-flammable

## APOLLO AT THE GLANCE

Apollo is confident with the technical solutions and high quality end products served to the customers.

Apollo invites you to explore other services and products:

- |  |                                      |                                      |
|--|--------------------------------------|--------------------------------------|
| • R&D and manufacturing custom solutions | • Adhesives                          | • Bonding Agents Systems             |
| • Building Finishing Systems             | • Concrete Admixture                 | • Concrete Repair Systems            |
| • Flooring Systems                       | • Grouts & Anchoring Systems         | • Painting & Putty Systems           |
| • Protective Coatings                    | • Sealant & Jointing Solutions       | • Structural Strengthening Solutions |
| • Surface Treatment Solutions            | • Tile Adhesive & Grouting Solutions | • Waterproofing Systems              |

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