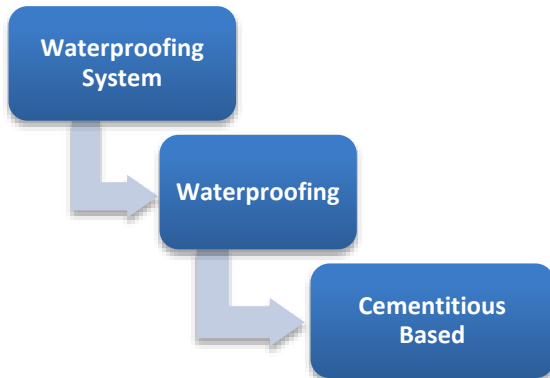


FAMILY TREE



PRODUCT DESCRIPTION

Cementitious based waterproof coating formulated with modified acrylic co-polymers and carefully selected materials resulted in flexible waterproofing coating solution. It is specially designed to be used on many common concrete construction substrates. It is specially designed to potable water tanks. It is available in a variety of colours. It can be used also for other applications such as backing coat for marble, stone and other mineral based cladding to protect against rising moisture..

FIELD OF APPLICATION

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

PROPERTIES

- | | |
|---|---|
| • Breathable, water vapour preamble. | • Durable. |
| • Resistant to Carbon dioxide | • Resistant to Chloride ions and carbonation. |
| • Non-toxic, suitable for potable water storage tanks. | • Economical. |
| • Rotting free. | • Can be applied to freshly hardened concrete |
| • Excellent elongation and flexibility. | • Excellent adhesion. |
| • Easy to apply. | • Increased frost and salt resistance. |
| • Excellent for damp proofing basements. | • Exhibits crack bridging and sealing property. |
| • Elastomeric. | • Single component, easy to apply. |
| • UV stable and resistant. | • Anti-fungus. |
| • Easy to maintain. | • Wide variety of colours. |
| • Resistance high positive and negative hydrostatic pressures | |

PREPARATION

Working Conditions	: 5° C to 45°C.
Tools / Equipment	: Mechanically powered mixer, clean plastic mixing container, brush, spray machine.
Substrate	: 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.
Priming	: Usually, priming for the substrate is not 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 ² /litre and allowed to dry before applying the first coat.

This Technical Data Sheet is prepared based on extensive research and practical experience. With the varieties of the materials and conditions of application is out of our control, Apollo assumes no responsibility for the obtained results and / or damages caused by the usage of this product. Apollo Technical Service family is always available at your disposal for any advice and directions that might be required.

Joints : In general, the product shall not be placed above expansion or construction joints. NASA Flexseal shall be used to manipulate the joints.

MIXING

Ratio : No materials / liquids shall be added of any type. The product consists of two components that shall be used completely together. Do not attempt partial mixing.

Mixing Speed : 400 - 600 rpm.

Process : 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 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 add the powder part to the liquid part without the mixer is started. Always mix the liquid and powder parts completely and do not attempt to split into smaller patches. Do not add any liquid / material of any type whatsoever other than the ones come with the product. Apply the mixture within 30 – 40 minutes.

APPLICATION

Application Method : By brush or spray machine.

Coating Thickness : 1 mm per coat.

Coverage : Approximately 8 m²/20 kg at 2mm thickness in two coats. Actual coverage depends on porosity and texture of the substrate.

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

Priming : Usually, priming for the substrate is not required. Surfaces to be pre-socked with clean & fresh water prior the application. If High Porous surfaces should be primed with NASA Bond 200 Primer at the rate of 5 m²/litre and allowed to dry before applying the first coat.

Process : Apply the first coat while the surface is still damp. Make sure that there is no standing water to the surface. 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. The second coat can be finished by rubbing down with a soft sponge. Spray or trowel application is acceptable provided the mixing ratio is adjusted to achieve the right Consistency.

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

Curing : The treated surface should be protected from high wind, direct sunshine and rain until fully Cured. Keep the treated area moist for 3-4 days after application.

Points of Attention : It is recommended that for application over hollow blocks or highly porous areas, a minimum of 3 Coats to total thickness of 3 mm be applied.

PACKING

Standard Package : NASA Proof W210 available in 20 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 : 24 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
Standard	ASTM & BS	
Testing Conditions	Tests were carried out in Apollo R&D laboratory @ 25°C	
Component	Two component Part A : Powder Part B : Liquid	
Mixed density	1.85 g/cm ³	
Working time	45 min	
Resistance to water pressure (2 mm coating)	DIN 1048)	> 70 m positive (7 bars) > 50 m negative (5 bars)
Static crack accommodation	> 0.8 mm	
VOC	< 10 g/ltr (powder) < 20 g/ltr (liquid)	
Bond Strength on normal concrete:	ASTM D4541	≥ 1.5 MPa @ 28 days
Bond Strength on gypsum boards	ASTM D4541	Gypsum failure
Tensile strength	BS 6319, Part 7 (mortar consistency)	≥ 2 MPa @ 28 days
Flexural strength: (mortar consistency)	ASTM C348	> 8 MPa (dry cure)
Compressive strength	ASTM C109 (mortar consistency)	≥ 15 MPa (dry cure)
Elongation at break	ASTM D412 (without reinforcement @ thicknesses > 2 mm)	≥ 15% @ low speed rate ≥ 5% @ high speed rate

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.