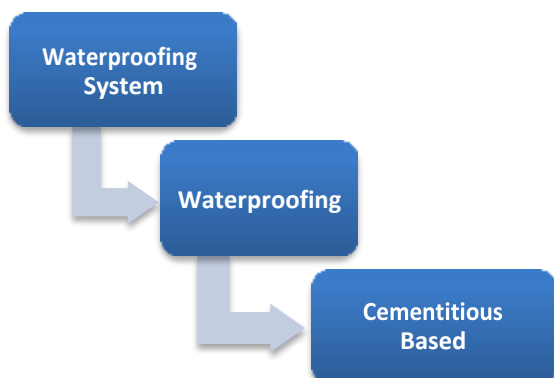


## FAMILY TREE



## 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 internal and external applications. It is available in a variety of colours.

## 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 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"/> Kitchen	<input checked="" type="checkbox"/> Roof Decks <input checked="" type="checkbox"/> Potable Water Tanks <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"/> Plaster <input checked="" type="checkbox"/> Plaster Board	<input checked="" type="checkbox"/> Cement Mortar <input checked="" type="checkbox"/> Gypsum Board <input checked="" type="checkbox"/> Wood	<input checked="" type="checkbox"/> Screed <input checked="" type="checkbox"/> Cement Board

## PROPERTIES

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>Breathable, water vapour permeable.</li> <li>Resistant to Carbon dioxide.</li> <li>Non-toxic, suitable for potable water storage tanks.</li> <li>Rotting free.</li> </ul> | <ul style="list-style-type: none"> <li>Durable.</li> <li>Resistant to Chloride ions.</li> <li>Economical</li> <li>Resistance high positive and negative hydrostatic pressures.</li> </ul> |
|--|---|

## PREPARATION

<b>Working Conditions</b>	: 5°C to 35°C.
<b>Tools / Equipment</b>	: Mechanically powered mixer, clean plastic mixing container, brush, spray machine.
<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>	: 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 <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>	: 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.
<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

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.

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.

<b>Points of Attention</b>	: 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.
----------------------------	--

## APPLICATION

<b>Application Method</b>	: Application by brush or roller.
<b>Coating Thickness</b>	: Approximately 1 mm per coat.
<b>Coverage</b>	: Approximately 8 m <sup>2</sup> / 20 kg for two coat @ 2 mm thickness. Recommended 2 coats. Actual coverage depends on porosity and texture of the substrate.
<b>Position</b>	: The described process is suitable for vertical and horizontal applications.
<b>Priming</b>	: 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 <sup>2</sup> /litre and allowed to dry before applying the first coat.
<b>Process</b>	: If priming is carried out, wait until the primed surface is completely dried. Stir the product well. Apply the first 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 3 hours. Apply the second coat in perpendicular direction to the first coat direct.
<b>Cleaning</b>	: All tools / equipment shall be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically with Solveteck.

## PACKING

<b>Standard Package</b>	: Cement Sel (2K) available in 20 Kg/Set.
<b>Custom Package</b>	: Special packages can be arranged for large requirements.
<b>How to Order</b>	: Specify the Product Name followed with a hyphen and package size.

## STORAGE CONDITION

<b>Shelf Life</b>	: 24 months from the date of manufacturing.
<b>Temperature</b>	: 2°C and 50°C.
<b>Points of Attention</b>	: Store in shaded area and properly sealed in its original packing.

## TECHNICAL PROPERTIES

PROPERTY	STANDARD	VALUE
<b>Standard</b>	ASTM D1227-95, Type III, Class 1. ASTM C309-93 when applied with two coats at a rate of 2 m <sup>2</sup> /litre.	
<b>Testing Conditions</b>	Tests were carried out in Apollo R&D laboratory @ 25°C.	
<b>Component</b>	Two Components Part A – Powder Part B – Liquid	
<b>Resistance to water pressure</b>	DIN 1048	> 30 m (3 bars) positive (2 mm thickness)
<b>Colour</b>	Grey and White	
<b>Working time</b>	45 min	
<b>Tensile strength</b>	BS 6319, Part 7	> 2.0 MPa @ 7 days > 2.5 MPa @ 28 days
<b>Bond strength</b>	ASTM D4541	≥ 1.5 MPa @ 28 days

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.



# Cement Sel (2K)

Cement Sel (2K) – 20 kg – BS/DIN/ASTM

Two Component Cementitious waterproofing coating  
modified with acrylic

VOC

< 10 g/ltr (powder)  
< 20 g/ltr (liquid)

## 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              |

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.