

# Technical Data Sheet

## Rdymix Cem-Flex 2K Ultra

HIGH PERFORMANCE POLYMER MODIFIED CEMENTITIOUS COATING

### Description

A two-component acrylic cementitious coating system designed for waterproofing of wet areas and water retaining structures such as swimming pools, Water tanks and other water features. It has strong bonding to the substrates and excellent resistant to hydrostatic water pressure by forming highly elastic seamless coating over the applied concrete/ masonry surfaces.

### Area of Application

- Any concrete, cement or masonry surface that are subject to moisture ingress.
- Swimming pools, reservoirs, water features and water tanks.
- Old and new concrete, plaster and masonry surfaces that is subjected to damage due to moisture.
- Flat and sloped roof and terraces, toilets, balconies, lift pits, planters etc.

### Product Features & Benefits

- Elastomeric coating.
- Excellent adhesion to concrete and masonry surfaces.
- Eco-friendly – Non-toxic with low VOC content.
- CFTRI certified – as a “potable water safe” coating for waterproofing for water tanks.
- Easily applied by brush, roller or towel.
- Can be applied on damp surfaces.

## METHOD OF APPLICATION

### Surface Preparation

- The surface of application must be thoroughly prepared by mechanical means, to remove all loose particles, laitance, etc.
- Oil and grease, if any, must be de-greased with suitable solvents. It then must be washed off with jet of water and brought to touch dry state.
- Any surface undulations, cracks and crevices must be duly filled or repaired with cement sand mortar mixed with latex polymers such as Rdy mix Rdybond.
- Substrate must be in a "Saturated Surface Dry" (SSD) condition (damp, without standing water) prior to application.

### Mixing

- Using a slow speed mechanical mixer and a clean suitable mixing vessel, slowly add the powder component to the liquid polymer and stir until a smooth and homogenous slurry, is achieved.
- Allow the mixed slurry to stand for 5 – 10 minutes before use.
- Do not dilute with water.

### Applications

- The surface of application must be pre-wetted thoroughly with water & brought to a touch dry state.
- Take up the first coat application with a stiff nylon brush. Work well into the substrate, to ensure that all small undulations are filled with the coating.
- 6 to 8 hrs after completion of first coat, take up second coat application in a direction perpendicular to the first.

- Complete the application and leave to air cure for 7 days. A moist hessian cloth can be kept over the coated surface to protect it from the effect of direct sunlight, in case of bathrooms and internal areas, leave the coating without water curing for 7 days at least.
- For vertical walls in bathroom ensure internal plaster is sound, levelled and mixed with Rdymix CWP.
- Apply 2 coats of Rdymix Cem-Flex 2K Ultra on all over or shower area, sprinkle the coarse, quartz sand while the second coat is still wet or apply a spatter dash bond coat. This will provide key for subsequent tile adhesive materials.

## Curing

Rdymix Cem-Flex 2K Ultra requires at least 7 days curing before ponding tests.

## Cleaning

Rdymix Cem-Flex 2K Ultra can be removed from tools and equipment immediately after use with clean water, only hardened material can remove mechanically.

## Technical Parameters:

Sr. no	Properties	Specification/Standard	Results
1	Mix Component	NA	Mix Ratio 1:1.4 (Liquid: Powder)
2	Mix Density	ASTM D 1475	1.48
3	Pot Life at 30 +/- 2 °C	Internal test method	45 mins
4	Recoat ability time	ASTM D 1640	6 – 8 Hrs
5	Touch dry time	ASTM D 1640:2018	45 minutes

6	Tensile Strength	ASTM D 412	Greater than 1 /mm <sup>2</sup>
7	Elongation at Break	ASTM D 412	Greater than 120%
8	Adhesion to Substrate	ASTM D 4541	Greater than 1 N/mm <sup>2</sup>
9	Water Permeability	SS – 500	15 – 21 ml/m <sup>2</sup> /day
10	Crack Bridging Ability	EN 1062-7(A)-2004	No cracking up to 2 mm
11	Depth of Water Permeability @ 5 Bar	EN 12390-8-2019	Passes
12	Inter coat application time	-	6-8 hours
13	Reduction in Rapid Chloride %	ASTM C 1202-2022	70%
14	Food grade certification	CFTRI certification	Passes

### Theoretical Coverage:

The approximate coverage is 4.5-5.5 Sq.ft/Kg applied in 2 coats to achieve DFT of 1.2-1.5 mm.

### Precautions & Limitations

- Do not add water to Rdy mix Cem-Flex 2K Ultra during application.
- Rdy mix Cem-Flex 2K Ultra needs at least 7 days for air curing. Water cures the coating by placing moist hessian cloth, if the coating is exposed to direct sunlight.
- Do not cure by flooding with water or conduct any ponding test before it gets completely cured.
- Concrete and masonry surfaces must be cured for 28 days before application.

- Overlay of a cementitious screed must be done within 24 to 48 hours after curing.
- Additionally, for bathrooms, wet areas, etc., the waterproofing coating should be done on a levelled surface and not directly over brick/block walls.
  - The brick/block surface and joints should be levelled with a thin coat of polymer modified mortar.
  - The concealed plumbing/electrical conduits area should be cleaned and packed appropriately with polymer modified mortar.

## Shelf life and storage

Shelf life is 12 months from the date of manufacturing if stored in original and unopened packaging in a cool dry place away from direct sunlight.

## Health & Safety Precautions

Non-Flammable. Avoid contact with skin and eyes. Any splashes to the skin or eyes should be washed off with clean water.

Wear mask when mixing. Wear protective gloves and eye protection when applied.

## PRODUCT STEWARDSHIP:

Jesons is committed to Responsible Care<sup>®</sup> and wants to pose no risk to people or the environment at any stage of their product life cycle. This responsibility is the base of our Product Stewardship principle by which we evaluate the Safety, Health and Environment information on our products and take appropriate steps to protect our Employees, Public Health and Environment.



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## Disclaimer:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge, understanding and experience of the product. The product can have a variety of different applications as well as differing application and working conditions in user environment that are beyond our control. We are therefore, not liable for the suitability of our product for the production/application processes and conditions in which user/customer uses them, as well as the intended applications and results. We strongly recommend that the user carry out their own prior trials to confirm such suitability of our product and its compliance with all applicable laws, regulations, and safety standards. The Information in the Technical Data Sheet does not constitute a warranty or guarantee, either express or implied, of any specific properties and suitability for any particular purpose.

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