

## TECHNICAL DATA SHEET



### RITECRETE<sup>®</sup> 2K FLEX<sup>PLUS</sup>

Two Component Cementitious  
Elastic Waterproofing Membrane

(Ref. SIPL / TDS / 2KFLEXPLUS / 0421 / R-01)

### ❖ Product Description

**MYMIX - RITECRETE<sup>®</sup> 2K FLEX PLUS** is a two component, polymer modified, highly flexible and elastic Cementitious water proofing membrane system. It comprises of superior quality Cement, reinforced fibers and other additives and liquid polymers. When liquid and powder mixed together and applied it forms waterproof, flexible, elastomeric membrane, it also provides strong bonding and crack bridging ability on masonry substrates. It is applied to prevent water infiltration for the water retaining concrete or any cementitious structures.

### ❖ Special Features

- Magnificent water proofing property
- Excellent crack bridging ability and seamless
- Extremely flexible and elastic
- Very good protection against carbonation
- Very high resistance to chloride and other salts



## ❖ Application

- Suitable for waterproofing of any concrete, Cement or cementitious surfaces
- Waterproofing of showers, bathrooms, toilets and sunken slabs
- Suitable for terraces, concrete roofs and balconies
- Suitable for aqua storages like swimming pools, water tanks & water reservoirs
- Suitable for concrete foundations & concrete walls, parking decks
- Suitable for prefabricated concrete constructions

## ❖ Advantages

- Easy & user friendly application by Brush, roller or trowel
- Excellent crack bridging property
- Creates seamless coating
- Provide very good protection against carbonation
- Very high resistance to chloride and other salts
- Superior adhesion with substrate
- Magnificent waterproofing properties
- Extremely flexible and elastic, thus accommodate thermal movement
- Thick elastic film can withstand against high hydrostatic pressure
- Excellent elongation at failure (approx. 150%)
- Resistance to UV rays

## ❖ Suitable Substrates

- All cementitious surfaces
- Old and new concrete surfaces
- Cement plaster and any masonry work

## ❖ Consumption

- Approx. 1.53 kg / m<sup>2</sup> per mm of thickness (Brush / Roller / Flat Trowel Application)
- Coverage may vary depending upon the site condition and substrate absorption

## ❖ Packing

**12 KG** (Part A - Liquid Component - 5 kg + Part B - Powder Component - 7 kg)

## ❖ Shelf Life

Factory sealed packs are best before 12 months from the date of manufacturing in unopened condition and stored in cool & dry area

## How to Apply

### Surface Preparation

- The surface should be clean and free from dirt, oil or grease before application
- Ensure that the substrate is flat, stable, well adhered, and has a normal absorption.
- In case of undulations, correct the local undulation/damage on the substrate at least 48 hours before the application.
- To get flat substrate; prepare mortar using **MYMIX SBR 330 / SBR Latex** for better performance.
- Dampen the wall or floor before application. Remove excess water before application
- The proper preparation of the surface will make the application easier & quicker ensuring a better result
- New concrete is recommended to be 1 month old and completely dried before application.

### Mixing

- Take 5 kg Liquid (Part A - RITECRETE® 2K FLEX PLUS) in to a clean mixing bowl or bucket and add 7 kg Powder (Part B – RITECRETE® 2K FLEX PLUS)
- Stir properly for 5 minutes by hand or an electric stirrer to get a smooth & homogeneous slurry mixture.
- After stirring wait for 5-10 minutes, stir once again
- Ensure that no powder, lumps particle and unmixed material left in the mixture

### Application

- Use the appropriate tools like brush / roller / flat trowel to spread the material uniformly
- Ensure that first coat applied properly to cover all the areas of substrates without any gap.
- Allow first coat to dry completely for 6-8 hrs before application of 2nd coat.
- Apply second coat after First coat is dry to touch, perpendicular to the direction of the first coat.
- The wet film thickness per coat should be between 1.0 mm to 1.25 mm
- Wait for at least 7 days for complete curing after applying MYMIX RITECRETE® 2K FLEX PLUS
- Clean tools and other items immediately after the use.



## ❖ Notes on Application / Limitations

- Do not add water, aggregates or any binders during the application
- If mixture is already hardening; do not use water or Part A liquid component to make usable again.
- Always add powder to liquid and never add liquid to powder
- Product performance on site varies subject to site conditions and installation procedure followed
- Do not add any other materials or substances like sand, aggregates, cements etc to the product. It may adversely affect the performance of product.
- Protect from rain and water spillages for the first 24 hours after two coats of application.
- Do not Leave RITECRETE® 2K FLEX PLUS exposed in swimming pools and wet areas. It should cover with tile or stone finishes.
- To improve further elongation & crack bridging ability, polypropylene fiber mesh can be used between 2 coats of RITECRETE® 2K FLEX PLUS.

## Technical Data

### General Properties

Testing Parameters	Result
Physical Appearance	Part-A : Milky white; Part-B : Grey colored powder
Mixing Ration (Liquid : Powder) by weight	1 : 1.4 (A:B)
Pot Life	1 Hour
Waiting time before applying 2 <sup>nd</sup> coat	6 - 8 Hours
Cure time after applying 2 <sup>nd</sup> coat	24 Hours
Waiting time before applying tiles / further application	7 DAYS
Application Temperature	8° - 40° C

### Physical Properties

Property	Test Method	Requirements	Typical Results
Film Tensile Strength in (N/mm <sup>2</sup> )	ASTM D 412	Not Applicable	5.0 - 5.5
Film Elongation at Break (%)	ASTM D 412	Not Applicable	>150
Adhesion Strength on concrete after 7 days (N/mm <sup>2</sup> )	ASTM D 4541	Not Applicable	1.5 - 2.0
Initial adhesion strength (N/mm <sup>2</sup> )	EN 14891-A.6.2	≥ 0.5	1.0 - 1.3
Adhesion after immersion in water (N/mm <sup>2</sup> )	EN 14891-A.6.3	≥ 0.5	0.8 - 0.9
Adhesion after freeze-thaw cycles (N/mm <sup>2</sup> )	EN 14891-A.6.6	≥ 0.5	0.85 - 1.0
Adhesion Strength after Chlorine water Immersion (N/mm <sup>2</sup> )	EN 14891 A 6.8	≥ 0.5	0.9 - 1.0
Impermeability to water under pressure (1.5 bar for 7 days of positive lift)	EN 14891-A.7	No Penetration	Pass (No Penetration)
Crack-bridging ability at +23°C (mm)	EN 14891 A 8.2	≥ 0.75	2.1

## Standards Followed

- ASTM D 4541
- ASTM D 412
- EN 14891

## Precautions

- Keep out of reach of children
- Wear suitable protective cloths, respirator and gloves
- In case of contact with skin/eyes, wash immediately with plenty of water & seek medical help

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