

TECHNICAL DATA SHEET



RITESEAL®

(Cementitious Waterproofing System)

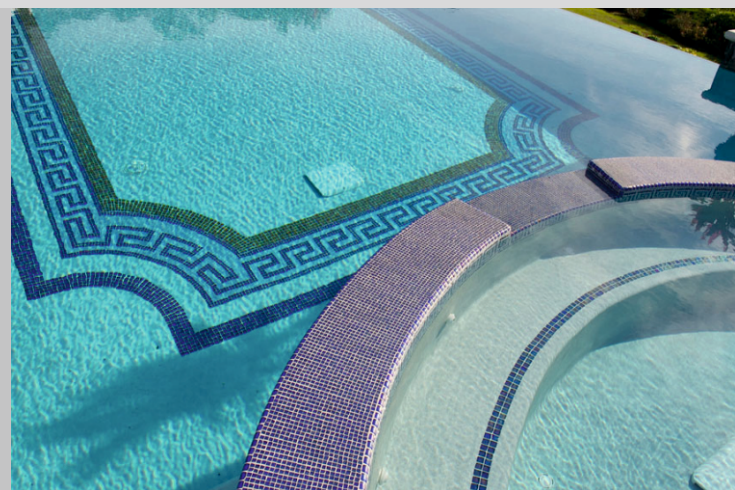
(Ref. SIPL / TDS / RITESEAL / 0421 / R-01)

❖ Product Description

MYMIX - RITESEAL® (Cementitious Waterproofing System) is a cementitious based single component, highly polymer modified, flexible waterproof coating for all kind of cementitious surfaces. It has good water resistance properties against water under hydrostatic pressure (up to 2 bar). It is to be mixed with water and applied by paint brush. This product can be used on walls and floors in wet areas such as bathrooms, kitchens, swimming pools, water fountains etc.

❖ Special Features

- Powder based single component, high polymer modified, waterproof system
- High-water resistance against hydrostatic pressure
- Excellent adhesion to cement surfaces
- Highly effective for positive & negative sides of hydrostatic pressure
- Suitable for swimming pool, toilets and bathrooms sunk area, overhead & underground water tanks



❖ Application

- Suitable for swimming pools and aqua storage waterproofing
- Waterproofing of toilets, bathrooms and sunk areas
- Suitable for cement based basements
- Waterproofing of overhead, underground water tanks and reservoirs
- Suitable for roofs and slabs
- Suitable for waterproofing of dam, water towers, reservoirs and channels
- Also applicable for ACC blocks and cement boards
- Suitable as a cementitious waterproof coating for new & old surface

❖ Advantages

- Smooth and creamy slurry, Ease to apply
- Excellent adhesion to cement surfaces
- Excellent waterproofing and crack-bridging ability
- Highly effective for positive & negative sides of hydrostatic pressure
- Good water impermeable property
- Positive side permeability : 2 Bar
- Negative side permeability : 1.5 Bar
- Very good UV resistance
- Non-Toxic

❖ Suitable Substrates

- Cement screeds
- Concrete structures
- All cementitious RCC plastered surface
- Interior and exterior wet areas

❖ Coverage

- Approx. 60 - 75 sq. ft. per 10 kg bag by brush application for two coats (for the film thickness of approx. 1.5 - 2.0 mm)
- Coverage results are as per standard laboratory conditions
- Coverage may vary depending upon the site condition and substrate absorption

❖ Packing

- Available in **1 & 10 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, grease, efflorescence and curing compounds 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 4.0 to 4.5 litres water in a mixing bowl or bucket and add 10 Kg **RITSEAL[®]**
- Stir properly for 5 minutes by hand or an electric stirrer to get a smooth & homogeneous slurry mixture
- To avoid micro bubbles in the mixed material, mix at slow speed (80-120 rpm) if mechanical stirrer is used
- After stirring wait for 5 minutes, stir once again
- Ensure that no powder, lumps particle and unmixed material left in the mixture
- The mixed consistency should be homogeneous slurry

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 approx. 2-3 hours before application of 2nd coat
- Apply 2nd coat after first coat is dry to touch, perpendicular to the direction of the first coat
- The thickness per coat should be between 0.70 to 1.00 mm
- Wait for at least 24 hours before further use

❖ Notes on Application / Limitations

- To avoid rapid moisture loss in **RITSEAL[®]**; it is not recommended to apply under direct sunlight which may lead to cracks
- Do not add water, aggregates or any binders to the product, it may affect the performance
- If mixture is already hardening; do not use extra water 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

❖ Technical Data

General Properties

Testing Parameters	Result	Testing Parameters	Result
Mixing Ratio	40 to 45 % by weight	Density of Mixture	1.40 - 1.60 g/cm ³
Colour	GREY	Time gap between 2 coats	Approx. 2-3 hours
Pot life @ 23 - 27° C	2 hours	Dry film thickness	Approx. 1.5 to 2.0 mm
Permeability Test (IS 516)	2 Bar	Toxicity	Nox-Toxic
Water absorption by Karsten Tube (30 min.)	0.1 ml	Adhesion to concrete (ASTM D 4541) - 7 th Day	> 1.2 N/mm ²

Technical Performance Properties according to EN 14891 (Classification : CM OP)

Testing Property	Specification	Result
Initial tensile adhesion strength	≥ 0.5 N/mm ²	1.16 N/mm ²
Tensile adhesion after immersion in water	≥ 0.5 N/mm ²	0.70 N/mm ²
Tensile adhesion after Heat ageing (70° C)	≥ 0.5 N/mm ²	1.25 N/mm ²
Tensile adhesion after freeze-thaw cycles	≥ 0.5 N/mm ²	0.75 N/mm ²
Tensile adhesion after immersion in Lime water	≥ 0.5 N/mm ²	0.80 N/mm ²
Tensile adhesion after immersion in Chlorine water	≥ 0.5 N/mm ²	0.95 N/mm ²
Crack-bridging ability at + 23°C	≥ 0.75 mm	1.4 mm
Water Impermeability (Under 1.5 bar for 7 days of positive lift)	No water penetration	No penetration observed

❖ Standards Followed

- EN 14891 CM OP

❖ 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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