

## TECHNICAL DATA SHEET



### AQUA BARRIER<sup>®</sup> HYBRID PU FLX 395

Polyurethane Hybrid Waterproofing Membrane

(Ref. MBPL / TDS / FLX 395 / 0524)

### ❖ Product Description

**AQUA BARRIER<sup>®</sup> HYBRID PU FLX 395** is a one component, polyurethane-based liquid applied, VOC compliant, ready to use waterproofing membrane. Suitable for exterior walls, podiums & basement applications on all horizontal surfaces. It will not crack, crumble or peel despite exposure to severe weather or total joint movement. It has been formulated to create a rigid bond to most surfaces. AQUA BARRIER<sup>®</sup> HYBRID PU FLX 395 forms a tough, flexible waterproof membrane with a high film strength and high abrasion resistance that will expand and contract under normal substrate movement & climate changes. It is supplied as a thixotropic liquid, which is easily applied to horizontal surfaces. The formulation is fully optimized to ensure quick tack-free time, fast cure, high solids and excellent resistance to swelling, durability of coating emphasize privilege of premium quality acrylic and polyurethane polymer, pigments, graded additives that are durable with weather and UV resistant. Used as a waterproofing and protective coating for interior & exterior application, having excellent resistance to micro-organisms (algae, fungi, molds & other) growth.

### ❖ Special Features

- Excellent thermal expansion & contraction-elongation (>395%).
- Anti-chalking property.
- Excellent abrasion & skid resistance.
- Excellent crack bridging.
- Excellent corrosion & water resistance
- Superior appearance with smooth finish.
- Compatibility with wide group age colors.
- High film thickness builds up.
- Negligible porosity product.
- Eco-friendly & cost effective.
- Solvent free composition.
- Superior bonding strength.
- Easy to apply.



## ❖ Application

- Under tile waterproofing.
- All horizontal and inclined masonry surfaces.
- Podium & Decks.
- For surface protection.
- Roof tops & planter areas.
- Terraces & parapet walls.

## ❖ Advantages

- High heat reflectance which keeps building cool.
- Excellent long life with antimicrobial properties.
- Easy to clean with water and soaps.
- Easy to apply by brush, roller and spray gun.
- Eco-friendly, no toxic chemicals & Heavy metals used.

## ❖ Suitable Substrates

- Metal Surfaces.
- Wood Substrate (MDF, Particle Board).
- Old & New Masonry surfaces.
- Asbestos & Asphalt Sheet.

## ❖ Coverage & Dry Time

- 8 - 8.5 sq. ft. / kg for two coats (DFT 1000 Micron)
- Dry time is 2 - 3 hour.
- Above results are as per standard laboratory conditions.
- Coverage may vary depending upon the site condition and substrate used.

## ❖ Packing

Available in **4, 10 & 20 kg** (Bigger pack size available on demand).

## ❖ Shelf Life & Storage

- Factory sealed packs are best before 12 months from the date of manufacturing in unopened condition and stored in appropriate container of Rigid PVC, HDPE, finished Stainless steel, ceramic and enamelled/rubberized containers.
- To avoid attack of micro-organisms, appropriate preservatives (APEO Free) added prior to storage/transportation, appropriate preservative chosen based on system compatibility and efficiency of preservative.

## ❖ How to Apply

### Surface Preparation

- The surface should be clean and free from dirt, oil or grease before application. Ensure that the substrate is levelled for undulations and having less absorption.
- All surface cracks up to 5 mm should be filled with MYMIX “RITECARE ACF” before priming.
- Cracks more than 5 mm and all separation gaps should be filled with MYMIX “SBR Latex” modified mortar. Bigger cracks, damaged portions and hollow areas must be repaired with polymer modified screed.
- Dampen the surface before application, remove excess water before application.
- The proper preparation of the surface will make the application easier and quicker ensuring a better result.

### Application

- Mix well material before use.
- For primer use MYMIX “AQUAFLEX<sup>®</sup> PRIME” directly without any dilution by brush, roller or spray gun.
- Apply “AQUA BARRIER<sup>®</sup> HYBRID PU FLX 395” after adequate curing of primer 4-6 Hrs.
- MYMIX “AQUA BARRIER<sup>®</sup> HYBRID PU FLX 395” without dilution and apply with a brush or roller evenly on the surface at a time interval of 5-6 hours.
- After completion allow to dry for adequate time period that may vary as per climate condition 12-24 Hrs.

## ❖ Notes on Application / Limitations

- Dilution to be made with clean and low hardness water only.
- Do not apply when ambient temperature is below 10°C or above 45°C.
- Do not apply in direct sunlight and during rainfall.
- Adhesion property may get affected over poor-quality putty and very smooth surfaces.

## ❖ Technical Data

Parameters	Standard	Measurement Unit	Results
Colour & Appearance	Visual	White Viscous Liquid	White Viscous Liquid
Solid Content	ASTM D 2369	%	68.0 - 72.0
Specific Gravity	ASTM D 792	g/cc	1.30 - 1.40
PH	NA	Value	8.5 - 10.0
Hardness (Shore A)	ASTM D 2240: 2002	Shore A	55.0 - 70.0
Tensile Strength	ASTM D 412: 2002	Mpa	>3.0
Elongation at Break	ASTM D 412: 2002	%	>395
Water Resistance	ASTM D 6083	Free form defects	Free form defects
Alkali Resistance	ASTM D 1308	Free form defects	Free form defects
Viscosity Brookfield Sp-6,RPM-10 LVT	ASTM D 2196	cP	15000 - 30000
Adhesion Strength	ASTM D 4541:2002	Mpa	>2.6
UV Resistant - Accelerated	ASTM G 154 :2000	No thermal degradation	Passes
Water Vapour Transmission	ASTM E 96 : 2000	g / hr-m <sup>2</sup>	0.92
Algae & Fungus Resistant	SS 345 : 1998	No algae/fungus growth	Passes
Crack Bridging	ASTM C 836 : 1995	mm	>2.0
Water Permeability <small>(Depth of penetration at 5 bar pressure)</small>	BS EN 12390, Part 8 :2000	mm	68
Recoat Time @ 30°C	ASTM D 1640 - 03	Hrs	3 - 4
Puncture Resistance	ASTM E 154	lbs.	385
Recommended Thickness (Dry Film)		Micron	1000

## ❖ Precautions

- Keep out of reach of children
- Wear suitable PPE's when apply
- In case of contact with skin / eyes, wash immediately with plenty of water & seek medical help

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