

# Polyglaze®

## PZ WP 531 2K FLEX

### PRODUCT DESCRIPTION

Polyglaze PZ WP 531 2K Flex is a high-performance, two-component, acrylic cementitious flexible coating system designed for comprehensive waterproofing. This versatile formulation, offers excellent flexibility for crack bridging and strong adhesion to concrete and masonry surfaces. It is ideal for waterproofing wet areas, swimming pools, and other water-retaining structures.

### AREAS OF APPLICATION

- ♦ Wet areas : bathrooms, showers, commercial kitchens
- ♦ Swimming pools : suspended and under ground
- ♦ Balconies and terraces : including cantilevered and sloped roofs
- ♦ Water tanks : including potable water systems
- ♦ Below - ground structures : basement walls, foundations, retaining walls, plinth zones
- ♦ Concrete, cement, and masonry surfaces exposed to moisture
- ♦ Sewage treatment plants, septic tanks, etc

### ADVANTAGES

- ♦ Superior waterproofing performance
- ♦ Highly flexible coating
- ♦ Excellent crack bridging ability of upto 2 mm
- ♦ Suitable for application on damp surfaces
- ♦ Exhibits strong adhesive properties with concrete and masonry
- ♦ Forms a monolithic, joint-free coating that effectively prevents water ingress
- ♦ UV Resistant

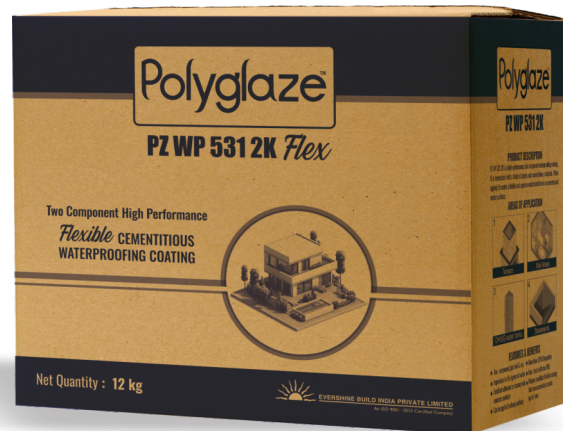
### APPLICATION METHODOLOGY

#### Surface Preparation

- ♦ The surface must be sound, rough and free from oil, dirt, debris, paint and other contaminants
- ♦ As a precautionary measure, remove all residues with a vacuum cleaner or pressure washing
- ♦ Cracks must be filled with PZ Crack Mortar or cement-sand mortar mixed with latex polymer such as PZ MP99 SBR
- ♦ Pre-wet absorbent substrates with clean water to saturated surface dry (SSD) condition
- ♦ Remove any standing water completely before application
- ♦ Prime highly absorbent surfaces (eg. drywall, gypsum) before coating
- ♦ Ensure the surface & ambient temperatures are between 8°C and 40°C

#### Mixing

- ♦ Recommended mixing ratio (by weight) - liquid : powder = 1:1.4
- ♦ Add PZ WP 531 2K Flex liquid into a clean bucket and gradually add the powder while mixing for at least 3 minutes using a mechanical mixer (300 rpm) to achieve a creamy slurry consistency for brush application
- ♦ Allow the mix to rest for 5 minutes; then remix for 2 minutes
- ♦ Ensure a homogeneous mix with no lumps in the slurry



### Application

- ♦ Apply the mixed slurry using a masonry brush / paint brush
- ♦ Ensure there is no standing water on the substrate, as it will impede coat bonding
- ♦ Avoid applying more than 1 mm thickness per coat to prevent cracking.
- ♦ Apply second coat only after the first coat has fully set (6 - 8 hours)
- ♦ Second coat to be applied in cross wise / diagonally opposite direction
- ♦ Minimum 2 coats are recommended and the maximum thickness should not exceed 1.5mm

### Curing

- ♦ For external areas, allow the coating to air cure undisturbed for at least 24 hours after applying the second coat
- ♦ In interior areas, let the coating air cure naturally for a minimum of 3 to 5 days
- ♦ For swimming pools, water tanks, and spas, a 7 - day air curing period is necessary before filling with water or conducting ponding or mock-up tests

### PACKAGING

- ♦ PZ WP 531 2K Flex is available in:  
12 kg box (5 kg liquid and 7 kg powder)

### STORAGE & SHELF LIFE

- ♦ Store in a dry place away from moisture and sunlight
- ♦ Best before 12 months from the manufacturing date in original sealed condition

### PRECAUTIONS & LIMITATIONS

- ♦ Do not dilute with water, cement, sand or binder during application
- ♦ Always add powder to liquid to avoid lump formulation
- ♦ Use fiberglass mesh in the first coat for enhanced crack bridging on critical areas
- ♦ Pond testing for water tightness should be done only after 7 days of curing
- ♦ Product performance may vary based on site condition and application procedure followed

# TECHNICAL DATA SHEET

## PHYSICAL PROPERTIES

Material Description	Part A: Milky White Liquid & Part B: Grey Powder
Mixing Ratio	1:1.4 (Liquid : Powder)
Pot Life @ 27°C	Approx. 60 minutes
Application Temperature	8°C to 40°C
Touch Dry Time	40 - 50 Minutes
Re-Coat Time	5 - 6 hours
Full cure time for tile / further application	7 Days

## PERFORMANCE PROPERTIES

PROPERTIES	STANDARD	PZ WP 531 2K FLEX
Wet Density	ASTM D 1475	1.65 – 1.70 g/cc
Tensile Strength	ASTM D 412 : 2016	> 1.2 N/mm <sup>2</sup>
Elongation at Break %	ASTM D 412 : 2016	> 150 %
Water Permeability @ 5 Bar	EN 12390-8-2019	Nil
Pull off Adhesion Strength to concrete	ASTM D 7234	> 1.0 N/mm <sup>2</sup>
Crack Bridging	ASTM C 836	> 2 mm
Food Grade Compatibility	CFTRI Certification	PASS

## COVERAGE

1.2 mm thickness in 2 coats	1.6 – 1.7 kg/m <sup>2</sup>
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### Note :

- ◆ Above values are under standard test conditions, variations may apply based on actual site or substrate conditions.
- ◆ The above test results were achieved under Standard Laboratory Conditions at Temp: 27 ± 2° C & Rh: 65 ± 5%.

## HEALTH & SAFETY

- ◆ Use a respiratory mask and protective gloves during application.
- ◆ Clean hands with soap and water after application.
- ◆ Avoid contact with skin / eyes. In case of unlikely contact, rinse eyes immediately with plenty of clean water and cleanse skin with soap and lukewarm water. Seek medical advice if irritation occurs / persists.
- ◆ In case of unlikely swallowing, seek medical attention immediately.

### Disclaimer:

The information in this TDS is for general guidance only. Specific advice for site conditions is available upon request. Details provided by the company are in good faith, when product is properly stored, handled, and applied under normal conditions. The site conditions, material compatibility, and workmanship are beyond our control, no warranties expressed or implied are given. The company accepts no liability for unsatisfactory results or consequential damages arising from product use.



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