

Polyglaze®

PZ WP 531 2K

PRODUCT DESCRIPTION

Polyglaze PZ WP 531 2K is a two-component, acrylic polymer-modified cementitious flexible waterproof coating for both internal and external applications. This versatile coating offers excellent waterproofing, crack bridging properties along with ease of application and long-term durability.

AREAS OF APPLICATION

- ◆ Suitable for water retaining and water exposed structures; basement walls, balconies, plaza decks, sewage tanks, water tanks, swimming pools, etc
- ◆ Reinforced concrete structures, foundation pits and retaining walls
- ◆ Suitable for underground areas like cellars, storage walls, tunnels, gutters, etc
- ◆ As a waterproofing coat beneath tile adhesives or screeds

ADVANTAGES

- ◆ Easy to apply using brush or roller
- ◆ Excellent flexibility
- ◆ Crack bridging capability
- ◆ Can be applied to damp surfaces

APPLICATION METHODOLOGY

Surface Preparation

- ◆ The surface must be sound, rough and free from oil, dirt, debris, paint & 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 standing water completely before application
- ◆ Seal the highly absorbent surfaces (eg. drywall, gypsum) with a primer coat
- ◆ Ensure surface & ambient temperatures are between 8°C and 40°C

Mixing

- ◆ Recommended mixing ratio (by weight) - liquid : powder = 1 : 2
- ◆ Add PZ WP 531 2K powder gradually to the liquid part and mix mechanically at 300 rpm for at least 3 minutes until a lump free creamy slurry is formed

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 1.2 mm

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 is available in:
 - 3 kg box (1 kg liquid and 2 kg powder)
 - 15 kg box (5 kg liquid and 10 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 : 2 (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
Wet Density	ASTM D 1475	1.70 – 1.80 g/cc
Tensile Strength	ASTM D 412 : 2016	> 1 N/mm ²
Elongation at Break %	ASTM D 412 : 2016	> 50 %
Water Permeability @ 5 Bar	EN 12390-8-2019	Nil
Pull off Adhesion Strength to Concrete	ASTM D 7234	> 0.85 N/mm ²
Crack Bridging	ASTM C 836	> 1 mm
Food Grade Compatibility	CFTRI Certification	PASS

COVERAGE

1 mm thickness in 2 coats	1.45 – 1.55 kg/m ²
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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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