

Polyglaze®

PZ END LEAKS 1K

PRODUCT DESCRIPTION

Polyglaze PZ End Leaks 1K is a cement based, polymer-modified, single-component, flexible, waterproofing product for concrete and masonry surfaces. It is formulated with special polymers and quartz along with cement. This versatile coating provides exceptional waterproofing performance while being easy to apply.

AREAS OF APPLICATION

- ◆ Waterproofing of concrete, foundation pits and retaining walls
- ◆ Sewage works, water tanks, swimming pools, etc
- ◆ Cellars, Storage lake walls, sluices, etc
- ◆ Can be applied to positive / negative water pressure sides

ADVANTAGES

- ◆ Ready to use - Single component, only water addition required
- ◆ Excellent adhesion to concrete and masonry surfaces
- ◆ Forms a seamless barrier against water ingress
- ◆ Can be applied on moist substrates
- ◆ Breathable - Allows trapped moisture to escape
- ◆ UV Resistant

APPLICATION METHODOLOGY

Surface Preparation

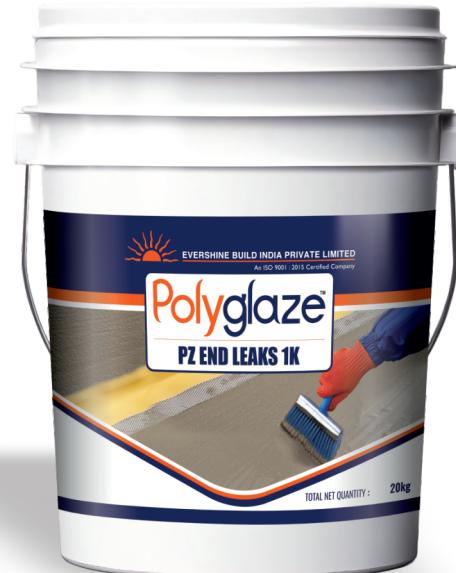
- ◆ The substrate must be sound, rough and free from oil, dirt, debris, paint and other contaminants
- ◆ As a precautionary measure, remove all residues with a vacuum cleaner or pressure washing
- ◆ Cracks must be filled with PZ Crack Mortar or cement - sand mortar mixed with latex polymer such as PZ MP99 SBR
- ◆ Pre-wet the substrate well with clean water, particularly substrates with excessive absorption such as block walls
- ◆ The surface must be saturated surface dry (SSD) with no standing water.
- ◆ Ensure the surface & ambient temperatures are between 8°C and 40°C

Mixing

- ◆ Add PZ End Leaks 1K powder into clean water and mix using a mechanical mixer for 3 minutes until a creamy, lump free consistency is obtained
- ◆ Allow the mix to stand for 5 minutes. Remix briefly before application
- ◆ For brushing consistency : Add approx. 8 litres of water per 20 kg Pail
- ◆ For trowel application by a skilled applicator : Add approx. 7.5 litres of water per 20 kg Pail

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 combined 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 End Leaks 1K is available in 20 kg pails

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	Grey Powder
Water mixing ratio by weight	38 - 40 %
Pot Life @ 27°C	Approx. 50 minutes
Application Temperature	8°C to 40°C
Touch Dry Time	30 - 40 minutes
Re-Coat Time	4-6 hours
Full cure time	7 days

PERFORMANCE PROPERTIES

PROPERTIES	STANDARD	PZ END LEAKS 1K
Fresh Wet Density	ASTM C 138:2017	1.80 g/cc
Elongation at Break %	ASTM D 412:2016	> 30%
Tensile Strength @ 28 days	ASTM C 307:2018	> 0.35 N/mm ²
Pull off Adhesion Strength @ 28 days	ASTM D 7234-2022	> 0.50 N/mm ²
Crack Bridging	ASTM C 836	> 1 mm

COVERAGE

1.2 mm thickness in 2 coats	2.0 - 2.5 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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