

Polyglaze®

PZ 500 + PU ADHESIVE

PRODUCT DESCRIPTION

Polyglaze PZ 500+ PU Adhesive is a highly elastic, multipurpose, two-component, organic mineral based product engineered for high performance. It provides exceptional adhesion for fixing and installing materials on interior and exterior floor and wall without vertical slip, making it ideal for use on deformable substrates.

SUITABLE SUBSTRATES

- ◆ Tile and Stone
- ◆ Cement mortar beds and plaster
- ◆ Concrete and concrete masonry
- ◆ Bricks and AAC blocks masonry
- ◆ Metal walls and floors
- ◆ Wood and plywood
- ◆ Epoxy and PU based substrates
- ◆ PVC, rubber and glass substrates
- ◆ Engineered stones and marbles

ADVANTAGES

- ◆ Exceptionally high tensile and shear adhesion strength
- ◆ Suitable for heavy-duty applications with moderate structural movements
- ◆ Water and chemical resistant
- ◆ Very high pot life and open time
- ◆ Flexible and durable

STANDARDS

- ◆ IS 15477: 2019 Classified as Type 5TS2
- ◆ EN 12004 and ISO 13007 Classified as R2T

APPLICATION METHODOLOGY

To ensure a successful installation of tiles or natural stone, it is essential to follow specific recommendations, including surface condition assessment, proper material mixing and application, use of a tile levelling system and using appropriate tools and equipment for lifting and handling heavy stones.

Surface Preparation

- ◆ The surface should be clean, dry, free from dust, grease, oil, and other contaminants
- ◆ The surface should be properly levelled for best results; in case of undulations or damage, correct the substrate at least 48 hours before application
- ◆ Allow concrete floors and walls to cure and dry for at least 3 - 4 weeks prior to tiling
- ◆ When using on seasoned wood or waterproof plywood, remove any varnish / polish or coatings
- ◆ Before applying to metal, thoroughly clean the surface by removing any rust, old paint, or coatings to ensure optimal adhesion



Mixing

- ◆ Take 80 g of resin paste and add 20 g of hardener (4:1 ratio by weight), then mix thoroughly for 5 minutes to achieve a smooth, uniform paste. Use a motorized mixer for larger volumes
- ◆ Mixing can be done mechanically by stirrer or manually by hand
- ◆ The paste should be kept away from direct sunlight and heat

Tile Fixing

- ◆ Before fixing the tiles or stones, clean their backsides with wet cloth to remove all dust particles
- ◆ Use a proper size notched trowel to ensure full bedding of the tile or stone
- ◆ Apply the mixed paste on to the surface using the straight edge of the trowel and then run the notched side of the trowel to achieve the desired thickness
- ◆ Before placing the tiles, apply a layer of adhesive behind the tiles using notch trowel and press firmly to the substrate. Then knock properly all around with a rubber hammer in order to spread the adhesive equally for a good contact
- ◆ Back buttering is necessary to ensure full bedding and firm support
- ◆ Ensure a gap is maintained between adjacent tiles using spacers to allow for thermal expansion and achieve uniform joint width.
- ◆ Any adjustment should be done within 50 - 60 minutes before paste starts hardening
- ◆ Carefully remove any excess paste immediately from the joints and the face of the tiles

Grouting & Cleaning

- ◆ Remove excess / loose material with sponge and clean water
- ◆ Grouting must be done after 24 hours for better results
- ◆ If opting for a cementitious grout, use PZC Tile Grout mixed with either clean water or PZ TG Admix (400 ml for 10 kg material)
- ◆ If opting for a Stain- Free epoxy grout then use PZ SF Epoxy Grout or PZ 2K Epoxy Grout
- ◆ Clean the tools with water immediately after use

PACKAGING

- ◆ Polyglaze PZ500+ PU Adhesive is available in 4kg and 8kg pails
- 4kg Pail (Part A 3.2 kg and Part B 0.8kg)
- 8kg Pail (Part A 6.4 kg and Part B 1.6kg)

STORAGE & SHELF LIFE

- ◆ Store in a dry place away from moisture and sunlight
- ◆ 12 months from date of manufacture when stored in original sealed condition in a cool and dry place

PRECAUTIONS AND LIMITATIONS

- ◆ Tiling should be avoided during very hot or rainy weather conditions
- ◆ Avoid using high-speed mixing when using electric mixing equipment
- ◆ Do not exceed the bed thickness of 6 mm
- ◆ Applicators must carefully evaluate the use of a mechanical fastening system, especially when installing heavy stones or tiles above 10 feet
- ◆ Follow the specified pot life and open time for each tile adhesive for optimal results
- ◆ Protect the tiled surface from direct sunlight and rain for at least 24 hours after application

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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TECHNICAL DATA SHEET

PHYSICAL PROPERTIES

Physical Appearance	Resin: White paste Hardener: Amber color liquid
Mixing Ratio : (Resin Paste + Hardener)	4 : 1
Pot Life	Approx. 90 - 120 minutes
Open Time	Approx. 60 minutes
Adjustability Time	Approx. 70 minutes
Setting Time	24 hrs
Time to foot traffic	24 hrs
Grouting Time	24 hrs
Working Temperature	10° C to 40° C

PERFORMANCE PROPERTIES

As per IS 15477 : 2019 Classified Type 5TS2 Adhesive

PROPERTIES		IS REQUIREMENT	PZ 500+ PU ADHESIVE
Tensile adhesion strength	Dry condition (28 days)	Min. 2.0 N/mm ²	> 2.0 N/mm ²
	Wet condition (28 days)	NA	NA
Shear adhesion strength	Dry condition (28 days)	Min. 6.0 N/mm ²	> 6.5 N/mm ²
	Heat Ageing (28 days)	Min. 3.0 N/mm ²	> 3.5 N/mm ²
	Wet Condition (28 days)	NA	NA
Slip (mm)		Max. 0.5 mm	0.30 - 0.40 mm
Deformability		Min. 5.0 mm	25 - 30 mm

As per EN 12004 : 2017 / ISO 13007 Classified R2T

PROPERTIES		EN / ISO REQUIREMENT	PZ 500+ PU ADHESIVE
Shear adhesion strength	Initial / Dry condition @ 28 days	Min. 2.0 N/mm ²	> 6.00 N/mm ²
	Water immersion @ 28 days	Min. 2.0 N/mm ²	> 6.00 N/mm ²
	Heat ageing @ 28 days	Min. 2.0 N/mm ²	> 3.5 N/mm ²

COVERAGE

1 - 2 kg / m² per mm thickness

Note :

- ◆ Coverage will vary depending on the surface and the application method.
- ◆ All the above values are based on testing conducted at 27 ± 2°C and relative humidity of 65 ± 5%. Actual results may vary depending on specific site conditions such as weather, surface and application method.