

# POXY PUTTY 500



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## Structural and Multi-Purpose Epoxy Adhesive

### Description:

POXY PUTTY 500 is a two-component solvent-free epoxy resin based structural adhesive in buttery consistency. Both the components are formulated to thixotropic and pigmented. This system is tough and resilient when compared to concrete. It has excellent characteristics for a variety of bedding, gap filling and concrete repair applications

### Field of Applications:

- Warehouses
- Factories
- Diaries
- Service Stations
- Chemical plants
- Metal treating plants
- Machinery service areas
- Food processing and rendering plants
- Garages and car repair facilities
- Airplane maintenance facilities

### Advantages:

- High Strength, non-slump, non-shrink, epoxy bedding system
- Thixotropic consistently allows application vertical, overhead
- Non-slump
- Forms a stiff but easily workable compound
- Resistant to impact and wide range of corrosive chemicals
- Strong adhesive to concrete
- Used for wide range of applications like bedding, grouting, crack filling and repair surface defects in horizontal, vertical and overhead applications.

### Technical Information:

Mix Ratio A:B : 1:1 by Value

Compressive Strength: 65N/mm<sup>2</sup> (ASTM C-579)

Bond Strength : Greater than of the concrete

Pot life : at 25°C: 1 Hour 30 Minutes

Tack free time : at 25°C: 8 Hours  
at 40°C: 2 Hours 30 Minutes

Full cure : at 25°C: 7 Days  
at 40°C: 3 Days

### Chemical Resistance:

Material	Concentration	Resistance
Tartaric acid	10%	Excellent
Hydrochloric Acid	10%	Excellent
Sodium Hydroxide	10%	Excellent
Deisel Fuel / petrol	-	Excellent
Sulphuric Acid	10%	Good
Sugar Solutions	10%	Excellent
Lactic Acid	10%	Excellent
Hydrocarbons	30%	Excellent
Phosphoric Acid	10%	Good
Sea Water	-	Excellent
Sewerage	-	Excellent
Mineral, Vegetable	-	Excellent
Oil & Fats	-	Excellent
Ammonia	-	Excellent
Formaldehyde	-	Excellent
Nitric Acid	10%	Good
Acetic Acid	5%	Limited

### Directions for use:

New concrete should have cured until the shrinkage and moisture movement is low and possess an open, porous and textured surface with all curing compounds and sealers removed. Old concrete must be clean and well textured. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabbler, bush hammer, shotblast or scarifier which will give a surface profile of a minimum (3 mm) and expose the large aggregate of the concrete. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing. Acid etching is acceptable only when mechanical preparation is impractical. It is recommended only contractors experienced in the acid etching process use this means of the surface preparation. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to dry completely.

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## Specifications / Compliances:

Epoxy Putty 500 complies with ASTM C 881 Type 1, Grade 3 , Classes B & C

## Packing:

Poxy Putty 500 is packed as 5 Kg (Kit) and 50 Kg (Kit)

**Color :** Grey

## Coverage:

Each 5 Kg Kit will be yield 2.91 Liters

## Note:

Even with proper procedures, an acid etched surface may not provide as strong a bond as a mechanically prepared surface.

Mix part A and part B (resin & hardener) for 3 minutes using a drill and mixing prop. For ease of mixing, add the part B to part A (not the reverse). The epoxy must be well mixed to ensure proper chemical reaction.

Fill routed out cracks and cut joints with Poxy Putty 500, then apply Poxy Putty 500 over the rest of the floor. Trowel Poxy Putty 500 to the required level using the minimum of solvent on the trowel to aid workability. The surface must be finished smooth by use of a paint brush dipped in Builda Solvent.

## Storage:

Keep in tightly closed containers and in sheltered and dry place with a temperature between 5°C and 35°C. In these conditions it maintains its characteristics unchanged for 12 months.

## Limitations:

- All tools must be cleaned with Builda Solvent before hardening.
- Store under cover out of direct sunlight and protect from extremes of temperature.
- Solvents are flammable keep away from heat, sparks, open flame or lighted cigarettes, use explosion proof application equipment's.

## Health & Safety:

Avoid contact with eyes and skin by using gloves and goggles. In case of contact with eyes, clean with plenty of clean water and seek medical advice immediately. Ensure adequate ventilation at working place.

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