

POWER ANCHOR EPOXY

Epoxy resin based anchoring grout



PRODUCT DESCRIPTION

Power Anchor Epoxy is a high strength epoxy paste for anchoring fixings into concrete and use as a general-purpose adhesive.

ADVANTAGES

- High strength
- Durability
- Easy application
- Excellent adhesion

TYPICAL PROPERTIES

| CATEGORY | PARAMETERS |
|--------------------|-----------------|
| Pot Life @ 20°C | 35 minutes |
| Initial Cure@ 20°C | 24 hours |
| Full Cure | 7 Days |
| Color | Grey when mixed |

STORAGE

Power Anchor Epoxy is an epoxy-based product which must be stored in the original unopened containers.

PRECAUTIONS

Where temperatures less than 5° C or greater than 35° C are encountered, contact our Technical Staff for specific advice. Power Anchor Epoxy is nontoxic but it is alkaline in nature. Any contact with eyes or skin should be washed off with soap and clean water. DO NOT use solvent. Protective gloves, goggles and clothing should be worn. Repeated contact with epoxy resins and hardeners can cause sensitization in some people handling this type of product. where this occurs seek medical advice before continuing use.

APPLICATION INSTRUCTION

Preparation: All contacted surfaces must be free of oil, grease or other contamination which may inhibit bond. Any loose concrete should be removed and repaired to provide a solid foundation.

Mixing: Power Anchor Epoxy is suitable for mixing using a drill and suitable paddle. Add the Hardener to the Base and mix for 3 to 5 minutes. Thoroughly mix the base (white) and the Hardener (black) together to give an even streak free grey color. Only mix that quantity of material, (usually one kit at a time), that can be used within the setting time

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions,

| Bar | Yield (tons) | Hole Diameter | | | | |
|-----|--------------|-------------------------|------|------|------|-----|
| | | Minimum Hole Depth (mm) | | | | |
| 12 | 5.2 | 20 | 280 | 250 | 225 | 200 |
| 16 | 9.3 | 20 | 490 | 445 | 400 | 355 |
| 20 | 14.5 | 25 | 615 | 555 | 500 | 440 |
| 25 | 22.5 | 32 | 750 | 675 | 615 | 540 |
| 32 | 37.0 | 38 | 1035 | 930 | 845 | 745 |
| 40 | 57.8 | 45 | 1365 | 1225 | 1115 | 980 |

COMPRESSIVE STRENGTH

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ASTM C-579 2" (50 mm) cubes @ 70F (21C)

AGE STRENGTH

- 1 day 6090 psi (42 N/mm2)
- 3 days 10,800 psi (72 N/mm2)
- 7 days 13,000 psi (90 N/mm2)

Creep Data: ASTM C-1181

- 3 days 2.8 x 10-4 in./in. (2.8 x 10-4 mm/mm)
- 7 days 2.9 x 10-4 in./in. (2.9 x 10-4 mm/mm)
- 28 days 4.0 x 10-4 in./in. (4.0 x 10-4 mm/mm)

Thermal Expansion: ASTM C-531

- 2.6 x 10-5 in./in./oF (4.5 x 10-5 mm/mm/oC)

Bond to Concrete: Exceeds tensile and shear strength of concrete

Impact Resistance: Greater than concrete.

Chemical Resistance: ASTM D-543
excellent resistance to most chemicals

Abrasion Resistance: Greater than concrete.

Flexural Strength: ASTM C-580

- 1 day 3,500 psi (24 N/mm2)
- 3 days 3,700 psi (25 N/mm2)
- 7 days 3,800 psi (26 N/mm2)
- 28 days 4205 psi (29 N/mm2)

Modulus of Elasticity: ASTM C-580

- 1day 0.95 x 106 psi (6.5 x 103 N/mm2)
- 28 days 1.24 x 106 psi (8.5 x 103 N/mm2)

Tensile Strength: ASTM C-307

- 3 days 2,000 psi (14 N/mm2)
- 7 days 2,040 psi (14 N/mm2)
- 28 days 2.040 psi (14 N/mm2)

Gel Time: ASTM D2471@86F (30oC): 90 minutes

Packaging: Power Anchor Epoxy is supplied in pre-weighed 1.5 and 6 liter kits comprising Base and Hardener.



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