

Technical Data Sheet

PLATINUM POLYESTER RESIN 380



Description:

Platinum Polyester Resin 380 is a rapid curing "one shot" two-part chemical anchoring cartridge system based on an unsaturated polyester resin in Styrene. Applied in one single action to produce a cost effective, tough, chemical resistant fixing. Platinum Polyester Resin 380 is ideal for close-to-edge applications (unlike expansion anchors) as no stress is placed on the surrounding substrate. Versatile in use, Platinum Polyester Resin 380 is suitable for fixing wall ties, starter bars, studs, bolts or large screws in a wide range of substrates including brickwork, concrete, masonry, stone and PFA blocks. Hollow base materials can be securely fastened into by using Anchorset in conjunction with a sleeve or sieve.

Uses:

- As a bonding agent.
- Where a waterproof bond is required.
- Where a chemically resistant bond is required.
- Where a vibration-proof bond is required.
- When bonding near to an edge.
- Where a stress free bond is required.

Benefits:

- Excellent adhesion
- Rapid strength gain.
- High strength.
- Corrosion resistant
- Resistant to thermal recycling.
- Low temperature cure.
- May be used in overhead applications.
- Pre packed ready for use.

Preparation:

1. Drill hole to the correct diameter and depth (see chart for guide), ideally using a rotary percussion machine. For optimum results the hole must be coarse sided. If the holes are produced by diamond drilling, the surfaces should be thoroughly roughened.
2. Remove all dust and debris from the hole using a hand air pump or a stiff rotary brush.
3. All bars should be clean and free from oil or grease and all flaking rust should be removed. Threaded rod or studs should be chisel-ended to prevent them being unscrewed from the cured resin.

Application:

1. Attach the mixing nozzle to the cartridge (screw down hand tight).
2. Place cartridge into the Anchor Resin Cartridge Gun.
3. Gradually pressurise the cartridge by activating the hand trigger a few times until material passes through the mixing nozzle. Stop pressurising and allow the material to flow until an even colour is obtained (approximately 5-6 inches of extruded material should be adequate).
4. Withdraw the nozzle slowly as the hole fills.
5. Once the required fill is achieved wipe off excess material. Insert the fixing slowly with a rotating action to the desired depth. Once all applications have been carried out, release the pressure by pressing the slide release arm on the back of the trigger stop and pulling back the slide rail.

N.B: Once material has started to extrude through the nozzle over pressurising the system will not increase flow rate, and can cause leakage from the rear of the cartridge.

Gel & Cure Times:

Temperature (°C)	Gel Time (Minutes)	Minimum Cure Before Loading (Hours)
5	15	3
10	10	2
20	7	1.5
30	5	1

Typical tensile and shear strengths to BS5080 in 25 Kn concrete.

Fixing Diameter	Tensile (Kn)	Shear (Kn)
M8	19.0	13.5
M10	21.7	16.5
M12	41.0	29.5
M16	75.0	49
M20	105.0	72

Storage Conditions:

Store in a dry area between 5°C and 25°C. Do not expose to direct sunlight. Storage at higher temperatures will reduce the shelf life.

Shelf Life:

12 months from date of manufacture.

Health & Safety:

Please refer to the Health and Safety Data Sheet on Platinum Polyester Resin 380.

Date: July 2010