

PADRAPAT PARS

Products for Anchoring



PADRA-Fixive RAF-431

High strength Epoxy adhesive for reinforcing bar and anchor fixing

DESCRIPTION

PADRA-Fixive RAF-431 is a 2-component, thixotropic, solvent free, high performance epoxy adhesive anchor system, used for fixing reinforcing bars and anchors in cracked and uncracked concrete. PADRA-Fixive RAF-431 is prepackaged in dual component cartridges for ease of application.

WHERE TO USE

PADRA-Fixive RAF-431 adhesive anchor system has been specially formulated as a high performance, high modulus, high strength, and thixotropic epoxy adhesive for anchoring threaded rods and reinforcing rebar in both cracked and uncracked substrates.

- Setting starter bars and dowels
- Fixing bolts and anchoring in general.
- Setting of holding down bolts
- Rebar installation
- Anchoring rods of different composition including galvanized, stainless steel, brass and zinc plated.

ADVANTAGES

PADRA-Fixive RAF-431 is a non-sagging epoxy adhesive prepackaged in dual component cartridges which has following advantages:

- Excellent adhesion to concrete and most construction materials
- Excellent early and final mechanical strengths
- Excellent chemical resistance
- Impact and shock resistance
- High strength and high modulus adhesive
- High creep resistance under permanent load
- Prepackaged, no site mixing required
- Low odour and easy to use
- Shrinkage free curing
- Fixing close to free edges
- Versatile range of embedment depths
- Anchor without expansion forces
- Fixing rods and anchors in cracked and uncracked concrete
- Fixing rods and anchors in hard natural stone, solid rock, and solid masonry.
- Non sagging and ideal for vertical and overhead applications
- Tough and durable

TECHNICAL INFORMATION

Colour	Gray (mixed)
Mixing ratio	A : B = 1.0 : 1.0 by volume
Density (at 25 °C)	1.350 kg/l (mixed)
Gel time	30 to 40 minutes (at 25°C)
Appearance	Pasty, does not flow
Service temperature	-35 to +65 °C
Full cured	After 48 hours (at 25 °C)



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HOW TO USE

Preparation	Drill the hole to the specified diameter and depth. Recommended sizes of drilled hole are given in guideline table.
Cleaning	Clean drilled holes using brush and compressed air. The compressed air must be clean and free from water and oil.
Application method	<ol style="list-style-type: none"> 1. Insert the static mixing nozzle to the bottom of the hole. Fill the hole with required amount of material whilst withdrawing the static mixing nozzle slowly. Ensure no air voids are created as the nozzle is withdrawn. 2. Insert anchor, threaded rod, or dowel all the way to the bottom of the hole. Using a back and forth twisting motion to ensure anchor engages with the material. Excess adhesive will be expelled from the hole evenly around the anchor or dowel element. There shall be no gaps between the anchor element and wall of the drilled hole. 3. Clean any excess adhesive from around the mouth of the hole. 4. Do not disturb the anchor until at least the minimum cure time has elapsed.
Material consumption	Depends on the dimensions of the hole and anchor.
Application limits	Do not apply PADRA-Fixive RAF-431 at temperatures below 5 °C. Do not thin PADRA-Fixive RAF-431 by solvent. Solvent will prevent proper cure. Minimum age of concrete must be 21~28 days, depending upon curing and drying conditions.
Cleaning	Uncured material can be removed with approved solvent. Cured material can only be removed mechanically.

Storage / Shelf life

Store out of direct sunlight, and protected from extreme heat and rain fall. When stored in a dry place below 35 °C, the shelf life for originally unopened package is 12 months from date of production.

Packaging

PADRA-Fixive RAF-431 is available in 600 ml. dual component cartridges.

Safety precautions

Prolonged and repeated skin contact with epoxy resins and curing agents may cause dermatitis in persons sensitive to these products. Product may cause skin irritation. Wear gloves and goggles. In contact with eyes or mucous membrane, flush immediately with plenty of warm water and seek medical attention without delay. Uncured products should be prevented from entering local drainage system and water sources. Spillage must be collected using absorbent materials such as sawdust and sand. Dispose of in accordance with local regulations.





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Guidelines for sizes of drilled holes

Bar diameter (mm)	Recommended hole diameter (mm)	Recommended depth of hole (mm)	Adhesive volume per hole (ml.)	Holes/cartridge
10	12	120	5	120
12	16	150	12	50
14	18	170	16	37
16	20	190	25	24
18	24	240	60	10
20	26	270	75	8
22	28	320	95	6
25	32	350	135	4
30	36	450	175	3

Note: For rebar installation, it would be recommended that diameter of hole be at least 4 mm greater than diameter of rebar with hole's depth not smaller than 12 times of rebar's diameter.