

Rocky Anchor

Description

ROCKY ANCHOR is a high strength, corrosion resistant, fast curing polyester resin anchoring grout. It consists of two components, pre-packed polyester resin and blended aggregates with an organic peroxide catalyst. The resin/aggregate mix has been designed to give excellent workability during application with high tensile strength when set.

Use

- Reinforcing dowels
- Starter bars
- Handrails and safety fences
- Wall ties
- Railway tracks
- Foundation bolts
- Ground anchors in concretes, concrete blocks, brickworks, AAC blocks and stones

Advantages

- Economical & easy to apply
- Fast curing, early gain of high strength
- Excellent dynamic vibration resistance
- Corrosion resistant
- Resistant to attack by many chemicals
- Resistant to immersion underwater

Technical Properties

Color	Light beige
Wet density at 25°C	1.95 kg/L
VOC	22.0 g/L
Pot life at 25°C	30 minutes
Compressive strength at 3 hours / At 24 hours / At 7 days (BS 6319)	78 N / mm ² / 80 N / mm ² / 89 N / mm ²
Flexural strength at 7 days (BS 6319)	23 N / mm ²
Tensile strength at 7days (BS 6319)	12 N / mm ²
Slant shear strength (BS 1881, part 207)	120 N

Rocky Anchor

Mixing

ROCKY ANCHOR consists of two components, resin and catalyst (with filler) which are supplied and pre-weighed in correct proportions.

Mix the two components well, preferably using a mechanical stirrer until a uniform consistency is obtained.

Application

The mixed grout should be poured or pumped steadily into the prepared holes well within the gel time. The mix should be injected to the bottom of the hole to avoid air entrapment. The bar or bolt should then be inserted into the hole to the required depth using a twisting motion. This will assist in ensuring a complete bond. The assembled bar should be left undisturbed till the grout hardens.

Cleaning

All used tools should be cleaned before the product cures. Cured materials should be mechanically removed.

Recommendations

- Do not add other materials to ROCKY ANCHOR
- Do not mix more grout than can be applied within the pot life of the material
- At temperature above 40°C, creep of the cured grout may become significant
- Anchoring strength depends on strength of substrate, resin embedded length, hole preparation, steel bar type and diameter

Rocky Anchor

Surface Preparation

- The strength of the cured ROCKY ANCHOR permits the assembly of anchors capable of high loadings. The ultimate load will be governed by (please refer to Table 1):
- Strength of substrate
- Length of resin bond to bar
- Type and dimension of bar
- Hole preparation

Coverage

- ROCKY ANCHOR is supplied in 1 Liter kit (2 components).

Shelf Life & Storage

Keep the product in dry, covered conditions at $< +25^{\circ}\text{C}$. In these conditions, product stability is 3 months from date of manufacturing.

Health & Safety

Wear protective gloves and goggles during application. This product contains chemicals which may be potentially harmful to your health if not used properly. It is strongly recommended to read the material safety data sheets for proper storage and to observe precautions.

If contact with skin or eyes happen, use resin cream to remove it from skin followed by clean water, do not use solvent. In case of contact with eyes, use clean water and seek medical consultation.

Holes should be drilled using rotary percussive drilling techniques. If diamond drilling is used, holes should be scabbled. If these precautions are not taken the smooth finish which obtained from diamond drilling can lead to reduce pull-out strengths. Pre-cast holes should be of dovetail configuration and have roughened sides.

After drilling, holes should be brushed and blown out twice, to remove all drilling debris. Bars and bolts should be degreased, and any mill scale or rust should be removed.

Bar reinforcement should be clean and free from rust.

Important Note

The information in this Technical Data Sheet is based on Rocky-SCM Canada's experience. Rocky-SCM does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Rocky-SCM Data Sheets are updates on regular basis. It is the user's responsibility to obtain the latest version.