MARKCHEM ROCKFIX S1

RESIN CAPSULE

DESCRIPTION

ROCKFIX S1 is based on especially thixotropic polyester resin and catalyst components in single pack cartridge/capsule form. It is inserted into the anchor hole and gets ruptured with the rotation of the bolt during the installation; the catalyzed resin spreads around the anchor bolt and grouts the annular space. Chemical reaction between the two components during mixing results into high strength solid anchor.

USES: For high Strength corrosion resistant anchoring of bolts from 12-40 mm diameter in concrete, brickwork, masonry or stone, where high speed of installation and early application of load is required. Foundation and machinery holding down bolts, crane and rail track fixing, grout anchors in stone, roof support in tunnels and mines, Stone slope stabilization, single sided shuttering support, safety barriers and fencing fixtures, pipe and cable support.

FEATURES / ADVANTAGES

- Easy and quick to use
- Can be used for overhead anchorages
- Produces strong, rapid and consistent anchorages
- Bolts protected from corrosion and chemical attack
- No expansion stress-can be used in weak or relatively soft strata
- Pre-packed to overcome site-batched variations
- Unaffected by vibration
- Factory controlled high quality product
- Higher compressive strength

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TYPICAL CHARACTERISTICS

STANDARD PROPERTIES

Parameter	Standard Values
Get time & Setting time • For FAST SET types • For SLOW SET types	 • 23 Seconds (Minimum) to 54 Seconds (Maximum) •134 Seconds (Minimum) to 202 Seconds (Maximum)
Reaction Temperature (°C)	Not more than 80
Thermal Stability •At 5°C for one hour •At 15C for one hour	The sample shall meet the get time and setting time stipulations as mentioned above

MECHANICAL PROPERTIES

Parameter	Standard Values
Compressive Strength (Applicable for Slow-Set types of resin only) • 30 Minutes • 24 Hours	 • 30.0 MPa (min) •80.0 MPa (min)
Bond Strength Test • 30 Minutes • 24 Hours	 • 10.0 Tonnes • 15.0 Tonnes
Shrinkage test:(Applicable for Slow – Set types of resin only) • 24 Hours • 7 Days	 • 0.01% (max) • 0.01% (max)

APPLICATION

• Dust free hole is a must and this may be achieved by compressed air or hole may be created by self-flushing drill.

• Drill hole to the specified depth with rotary/percussive drilling machine and the hole should be clean free from obstruction.

• Select the correct resin capsules that have been specified for the job.

• Insert ROCKFIX S1 cartridge/capsules inside the hole with the bolt or a stemming rod.

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• Insert the stone bolt and rotate with the drill whilst pushing progressively through the cartridge @ on second per 25 RPM between 150&400 is preferred. Avoid high speed.

• When bolt reaches the bottom of the 25 mm hole, rotate for a further 2/3 seconds to ensure complete mixing Detach drill from adaptor and lease anchor undisturbed until set

• Do not over mix the resin. If mixing continues beyond the recommended spin time and into the gel time, solidifying resin be destroyed

PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.