



EASTERN SETCRETE *Private Limited*

An ISO 9001 : 2000 Company

MANUFACTURER OF CONSTRUCTION CHEMICALS

SETBOLT – R

PRODUCT DATA SHEET

RESIN CAPSULE FOR ROCKS STABILIZATION

DESCRIPTION :

A high and fast strength giving sausage shaped composite cartridge, containing special grade of isophthalic polyester resin and a floating inner tube, filled with catalyst in accurately measured quantities. The two components are housed in a single pouch and yet isolated from each other. When punctured and torqued by a reinforcing rod, the fragile tube breaks; the resin and catalyst thus get homogeneously mixed and the phenomenon of curing by cross linking sets in. The gel point under exothermic condition is reached with in 1 to 30 minutes, as per specific requirements and the annular space between the bore hole wall and rock bolt is filled with a tough thermoset resin matrix. This stitches the mother substrate or anchors the rod and stabilizes the support system permanently, achieving a pull-out load as high as 20 MT.

USES :

To counter the load and squeezing phenomenon occurring from the reducing residual stress of the rock, after blasting, in a mining or tunneling operation. It reinforces rock strata and prevents freshly exposed overhead rock from collapsing, after each blast.

ADVANTAGES :

- Increases stand-up time of unsupported span in tunneling
- Suitable for a wide range of rocks, even with low RMR
- Ideal for fast tunneling work as per NATM
- Pre-determinable setting times
- High early and final strengths, achievable in minutes
- Inert to mother substrates after reaction
- Sets as a monolithic mass, even in vibrating and moist conditions
- No danger of chemical attacks or fire, to environment
- Resistant to salt water, oil, acid, alkali, greases and solvents
- Ideal in underground coal mining operations, hydel projects, traffic tunnels.

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