# Resin Cartridge

## (For Rock Bolt)

**VISE-E16** mainly composed by polyester and hardener sealed inside the PE plastic foil pack. The cartridge is widely applied as fixation material for bolting or anchoring in the field of mining, tunneling or other foundation works.

## Special features:

☼ The very durable P.E. film foil pack is preventing broken during push in.

☼ Polyester Resin bonded entirely with borehole to gain anchoring strength

☼ Compressive strength up to 80 N/mm$^2$ (ASTM D695-89)

☼ Bolt pull loading test (up to 15 tonf) available 30 - 60 minutes after application

☼ The gelling time is adjustable according to the different requirements.

VISE-16 Green

VISE-16 RED

## TECHNICAL DATA

| Diameter | Length | Volume | Bolt OD | Borehole | Bondage L |
|---|---|---|---|---|---|
| 40 mm OD | 500mm | 625c.c | 40mm | 50mm | 770mm |
| | | | 32mm | 44mm | 730mm |
| 40 mm OD | 345mm | 430c.c | 40mm | 50mm | 530mm |
| | | | 32mm | 44mm | 500mm |
| | | | 25mm | 40mm | 460mm |
| 30 mm OD | 500mm | 340c.c | 32mm | 40mm | 830mm |
| | | | 25mm | 35mm | 680mm |
| | | | 20mm | 32mm | 630mm |
| 30 mm OD | 330mm | 225c.c | 32mm | 38mm | 790mm |
| | | | 25mm | 32mm | 660mm |
| | | | 20mm | 28mm | 480mm |
| 25 mm OD | 330mm | 155c.c | 25mm | 35mm | 230mm |
| | | | 20mm | 30mm | 290mm |
| | | | 16mm | 28mm | 270mm |

Remarks: Special dimension is available upon request.
Borehole diameter is recommended to be 7~12mm bigger than rock bolt.
For very fractured geology the bonding length will relatively reduce 25~50%.

## REACTION TIME

Reacting time of **VISE-E16** would be affected by surrounding temperature, generally 10°C up the gelling time becomes roughly half time shorten.

Curing time means the resin mixture becoming harden after the gelling time, for **VISE-E16** the hardening time is around 15 min. after gelling.

**Gelling time**    (**GREEN**-Standard)

Gel time in 10 - 15 min. (25°C) **GREEN** Cartridge is available when ordering.

(**RED**-Fast Type)

Gel time in 3 - 5 min. (25°C) **RED** Cartridge is available when ordering.

## INSTALLATION SEQUENCE FOR BOLTING
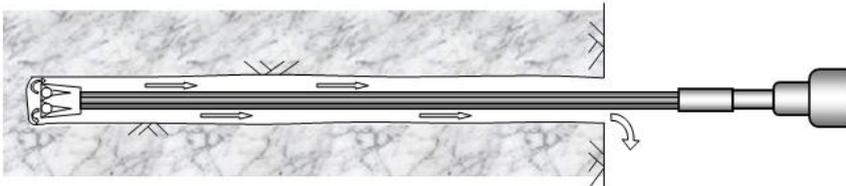
**Borehole drilling & Flush cleaning**
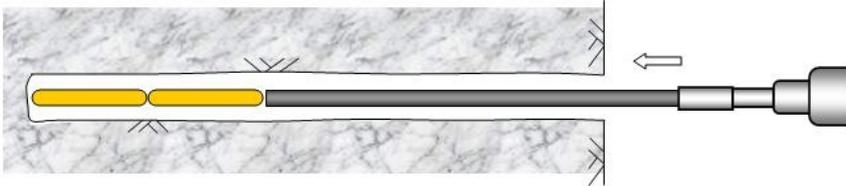
**Insert the VISE-E16 As designed quantity**
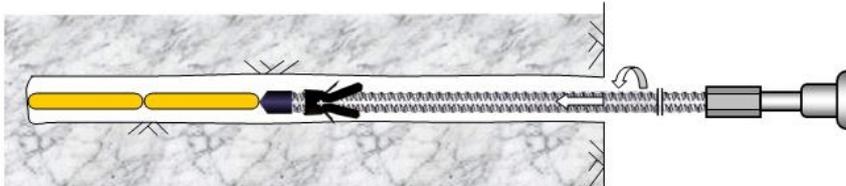
**Spin VISE-E16 As special adapter (Full-threaded Dowel)**
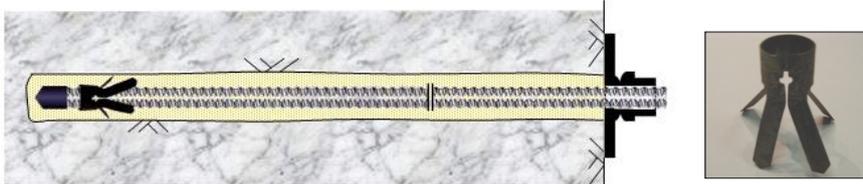
**Bolt-Spider Fixing bolt upwards Spin & Mix resin**

Storage 180 days quality is assured under 35°C without sun exposure.

Well Protected Packing 40 cartridges are loaded per cartoon for delivery