

## The versatile injection mortar for anchorings in non-cracked concrete and masonry



### BUILDING MATERIALS

#### Approved for anchorings in:

- Concrete C20/25 to C50/60, non-cracked
- Hollow blocks made from lightweight concrete
- Hollow blocks made from concrete
- Vertically perforated brick
- Perforated sand-lime brick
- Solid sand-lime brick
- Aerated concrete
- Solid brick

#### Approved for rebar connections in:

- Concrete C12/15 to C50/60

#### Also suitable for:

- Concrete C12/15

### APPROVALS



### ADVANTAGES

- The FISV injection mortar has numerous system approvals, such as in non-cracked concrete, masonry and for rebar connections. FISV is thus the universal injection mortar family with guaranteed reliability for practically all areas of application.
- FISVW High Speed has a significantly shorter curing time than FISV, thus also ensuring swift work progress even at low temperatures.
- FISVS Low Speed with extended gelling time prevents premature curing of the mortar at higher temperatures and is ideally suited to large drill hole depths.
- The extensive range of accessories is ideally suited to the FISV injection mortar family, increases the great flexibility of the system and thus allows for a broad range of applications.

### APPLICATIONS

#### Injection mortar for use with:

- Threaded rods FIS A, see page(concrete),(masonry) and(aerated concrete).
- Internal threaded anchor RG MI, see page
- Rebar anchor FRA, see page
- Concrete steel bars, see page
- Injection anchor sleeves FIS H, see page
- Aerated concrete centring sleeve PBZ, see page
- Remedial wall tie VBS 8, see page
- Weather facing reconstruction system FWS, see page

### FUNCTIONING

- The FIS V is a 2-component injection mortar based on vinyl ester hybrid.
- Resin and hardener are stored in two separate chambers and are not mixed and activated until extrusion through the static mixer.
- The injection cartridges are quick and easy to use with the fischer dispensers.
- Partially used cartridges can be reused, simply by changing the static mixer.
- Related accessories for the various applications can be found on pages(non-cracked concrete),(masonry),(aerated concrete) and(rebar connection).

## TECHNICAL DATA



Injection mortar FIS V

| Article name                      | Art.-No.      |   | Approval | Languages on the cartridge     | Contents   | Languages on the cartridge |
|-----------------------------------|---------------|---|----------|--------------------------------|--|----------------------------|
| <b>FIS V 360 S</b>                | <b>094404</b> | ● | ■        | D, F, NL, TR, H, RUS           | 1 cartridge 360 ml, 2 x FIS easy mixer   |                            |
| <b>FIS V 360 S</b>                | <b>094405</b> | ● | ■        | GB, I, P, E, PRC, JP           | 1 cartridge 360 ml, 2 x FIS easy mixer   |                            |
| <b>FIS V 360 S</b>                | <b>068435</b> | ● | ■        | DK, S, N, FIN, PL, CZ          | 1 cartridge 360 ml, 2 x FIS easy mixer   |                            |
| <b>FIS V 360 S</b>                | <b>502283</b> | ● | ■        | LT, LV, EE, UA, RUS, KZ        | 1 cartridge 360 ml, 2 x FIS easy mixer   |                            |
| <b>FIS V 360 S</b>                | <b>041846</b> | ● | ■        | D, H, RO, SLO, HR, BG          | 1 cartridge 360 ml, 2 x FIS easy mixer   |                            |
| <b>FIS V 360 S</b>                | <b>043994</b> | ● | ■        | CZ, SK, PL, H, RO, RUS         | 1 cartridge 360 ml, 2 x FIS easy mixer   |                            |
| <b>FIS V 950 S</b>                | <b>017101</b> | ● | ■        | D, GB, F, NL, I, E, P, JP, PRC | 1 cartridge 950 ml, 1 x static mixer big, 1 x easy mixer   |                            |
| <b>FIS S</b>                      | <b>061223</b> |   |          |                                | 10 static mixer  |                            |
| <b>FIS V 360 S HWK big</b>        | <b>091936</b> | ● | ■        | D, F, NL, H, RUS, TR           | 20 cartridges 360 ml, 40 x FIS easy mixer  |                            |
| <b>FIS V 360 S HWK big</b>        | <b>503027</b> | ● | ■        | D, H, RO, SLO, HR, RUS         | 12 cartridges 360 ml, 24 x FIS easy mixer, 1 x dispenser FIS DM S  |                            |
| <b>FIS V 360 S HWK big</b>        | <b>096554</b> | ● | ■        | GB, I, P, E, PRC, JP           | 20 cartridges 360 ml, 40 x FIS easy mixer  |                            |
| <b>FIS V 360 S HWK small</b>      | <b>092430</b> | ● | ■        | D, F, NL, H, RUS, TR           | 10 cartridges 360 ml, 20 x FIS easy mixer  |                            |
| <b>FIS V 360 S in bucket</b>      | <b>503025</b> | ● | ■        | GB, I, P, E, PRC, JP           | 20 cartridges 360 ml, 20 x FIS easy mixer  |                            |
| <b>FIS B Case set</b>             | <b>024870</b> | ● | ■        | D, F, NL, TR, H, RUS           | 3 cartridges 360 ml, 1 x dispenser FIS DM S, 1 x blow-out pump ABG, 1 x set of brushes, 6 x FIS easy mixer |                            |
| <b>Thermosafe Case set, empty</b> | <b>511083</b> |   |          |                                | empty, for cartridges 360 ml, FIS DM S and Blow-out pump ABG   |                            |

## CURING TIME

| Cartridge temperature<br>(mortar) | Gelling time | Temperature<br>at anchoring base | Curing time |
|-----------------------------------|--------------|----------------------------------|-------------|
|                                   |              | - 5°C - ± 0°C                    | 24 hrs.     |
|                                   |              | ± 0°C - + 5°C                    | 3 hrs.      |
| + 5°C - +10°C                     | 9 min.       | + 5°C - +10°C                    | 90 min.     |
| +10°C - +20°C                     | 5 min.       | +10°C - +20°C                    | 60 min.     |
| +20°C - +30°C                     | 4 min.       | +20°C - +30°C                    | 45 min.     |
| +30°C - +40°C                     | 2 min.       | +30°C - +40°C                    | 35 min.     |

The above times apply from the moment of contact between resin and hardener in the static mixer.

For installation, the cartridge temperature must be at least +5 °C. For longer installation times, i.e. when interruptions occur in work, the mixer should be replaced.