



High-bay warehouses



Air conditioning units

## BUILDING MATERIALS

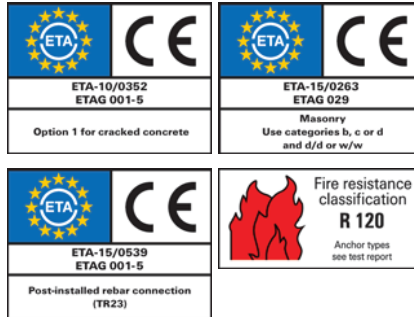
### Approved for anchorings in:

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

### Also suitable for:

- Rebar connections
- Concrete C12/15
- Hollow blocks made from concrete
- Aerated concrete

## ASSESSMENT/APPROVAL



# INJECTION MORTAR FIS VL

## The solid injection mortar for standard applications in cracked and uncracked concrete and masonry

### ADVANTAGES

- FIS VL is approved for use in cracked and uncracked concrete and masonry, and achieves a high load-bearing capacity in these conditions.
- The injection mortar, based on vinyl ester resin, allows for anchorings in water-filled drill holes (410 ml cartridges only).
- The temperature resistance of FIS VL injection mortar of -40 °C to +120 °C allows for a solid load level even when subjected to high temperature demands, thus providing great flexibility.

### APPLICATIONS

#### Injection mortar for use with:

- Threaded rods
- Internal threaded anchor RG MI
- Injection anchor sleeves FIS H
- Rebar

### FUNCTIONING

- FIS VL is a 2-component injection mortar based on vinyl ester.
- Resin and hardener are stored in two separate chambers and are not mixed and activated until extrusion through the static mixer.
- The 410 ml coaxial cartridge can be easily used with the fischer FIS AC dispenser.
- Partially used cartridges can be reused, simply by changing the static mixer.

# INJECTION MORTAR FIS VL

## TECHNICAL DATA

Injection mortar **FIS VL 410 C**Static mixer **FIS MR****FIS VL 410 C in bucket**

Item	Art.-No.	Approval		Languages on the cartridge	Scale unit	Contents	Sales unit
		ETA	ICC				[pcs]
<b>FIS VL 300 T in bucket</b>	<b>539461</b>	■		GB, F, E, P, RO, UAE	150	20 cartridges 300 ml, 40 x FIS MR	20
<b>FIS VL 410 C in bucket</b>	<b>539463</b>	■		GB, F, E, P, RO, UAE	200	16 cartridges 410 ml, 32 x FIS MR	16

## CURING TIME FIS VL

Cartridge temperature (mortar)	Gelling time	Temperature at anchoring base	Curing time
		- 5°C - ± 0°C	24 hrs.
+ 0°C - + 5°C	13 min.	± 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.