

## Injection system MULTIFIX HSF Seismic



### Included in delivery

- 1 mortar cartridge
- 1 mixing nozzle

### Cross references

Anchor rod  
Cordless hammer drill ABH  
Hammer drill SDS plus®  
Applicator gun AP420 ml  
Cleaning brush  
Blow-out pump  
Duster Expert SDS plus

### Application examples

- > Designed for heavy-duty applications in concrete, including the installation of steel structures such as columns, beams, brackets, railings, gratings, sanitary equipment, stadium seating, pipe supports and cable management systems
- > Also ideal for securing façades, awnings and storage racks
- > Suitable for post-installed rebar applications in renovation, extension and retrofit projects

### Application range

Substrates:

- > Cracked and uncracked concrete

Fastening elements:

- > Threaded rods (galvanized and stainless steel)
- > Post-Installed rebars
- > Internal threaded anchor rods

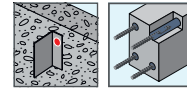
### Characteristics

- > High-performance hybrid Urethan-Methacrylate resin
- > For heavy-duty applications
- > Seismic action and fire exposure assessment
- > Overhead installation
- > Water-filled drill holes
- > Fastening without expansion pressure, therefore small edge and center distances possible
- > Very high chemical resistance
- > Excellent performance at high temperature
- > Fast curing for faster anchor installation
- > Low odor development
- > The cartridge can be used again until the end of its shelf life by replacing the static mixer or by closing it again with the original cap
- > 100 years working life assessment

### Notice

Please observe the corresponding approvals during planning and processing.

### Applications



### Technical specifications



### Certifications



### Installation process



### Technical data sheet



### Installation parameters

| Anchor rod | $d_0$<br>[mm] | $h_{ef} = h_0$<br>min - max<br>[mm] | $T_{inst}$<br>≤ [Nm] | Pre-set installation<br>$d_f$ [mm] | In-place installation<br>$d_f$ [mm] | $h_{min}$<br>[mm]      | $S_{min}$<br>[mm] |
|------------|---------------|-------------------------------------|----------------------|------------------------------------|-------------------------------------|------------------------|-------------------|
| <b>M8</b>  | 10            | 60 – 160                            | 10                   | 9                                  | 12                                  | $h_{ef} + 30 \geq 100$ | 40                |
| <b>M10</b> | 12            | 60 – 200                            | 20                   | 12                                 | 14                                  | $h_{ef} + 30 \geq 100$ | 50                |
| <b>M12</b> | 14            | 70 – 240                            | 40*                  | 14                                 | 16                                  | $h_{ef} + 30 \geq 100$ | 60                |
| <b>M16</b> | 18            | 80 – 320                            | 60                   | 18                                 | 20                                  | $h_{ef} + 2d_0$        | 75                |
| <b>M20</b> | 22            | 90 – 400                            | 100                  | 22                                 | 24                                  | $h_{ef} + 2d_0$        | 95                |
| <b>M24</b> | 28            | 96 – 480                            | 170                  | 26                                 | 30                                  | $h_{ef} + 2d_0$        | 115               |
| <b>M27</b> | 30            | 108 – 540                           | 250                  | 30                                 | 33                                  | $h_{ef} + 2d_0$        | 125               |
| <b>M30</b> | 35            | 120 – 600                           | 300                  | 33                                 | 40                                  | $h_{ef} + 2d_0$        | 140               |

\*Maximum installation torque for M12 with steel Grade 4.6 is 35 Nm

**Installation parameters**

| Temperature in base material                 | Maximum working time | Curing time in dry base material | Curing time in wet base material |
|----------------------------------------------|----------------------|----------------------------------|----------------------------------|
| -5 °C to -1 °C                               | 50 min               | 5h                               | 10h                              |
| 0 °C to +4 °C                                | 25 min               | 3.5h                             | 7h                               |
| +5 °C to +9 °C                               | 15 min               | 2h                               | 4h                               |
| +10 °C to +14 °C                             | 10 min               | 1h                               | 2h                               |
| +15 °C to +19 °C                             | 6 min                | 40 min                           | 80 min                           |
| +20 °C to +29 °C                             | 3 min                | 30 min                           | 1h                               |
| +30 °C to +40 °C                             | 2 min                | 30 min                           | 1h                               |
| <b>Cartridge temperature +5 °C to +40 °C</b> |                      |                                  |                                  |

| Order description                                                          | Content [ml] | PU [pieces] | Price/1 [EUR] | Article number | EAN           |
|----------------------------------------------------------------------------|--------------|-------------|---------------|----------------|---------------|
| Mortar cartridge HSF Seismic 420 ml                                        | 420          | 1           |               | 9571002420     | 4061245110110 |
| <b>Order information: 1 mixing nozzle is included with each cartridge.</b> |              |             |               |                |               |