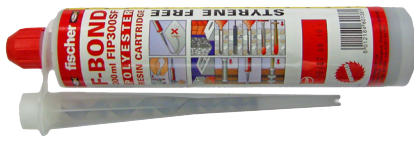


Injection mortar FIS P

The expansion-free polyester resin anchoring system for masonry.

OVERVIEW



Injection mortar
FIP 300 SF
Styrene Free



Injection mortar
FIS P 380 C
Styrene Free



Injection mortar
FIP C 700
Styrene Free

Suitable for:

- Solid brick
- Solid sand-lime brick
- Solid block made from lightweight concrete
- Autoclaved lightweight concrete, aircrete
- Vertically perforated brick
- Perforated sand-lime brick
- Hollow blocks
- Concrete

For fixing of:

- Steel constructions
- Railings
- Hand-rails
- Consoles
- Ladders
- Cable trays
- Machines
- Staircases
- Gates
- Facades
- Window elements
- High racks
- Canopies
- Stand-off installations

* Non critical applications

DESCRIPTION

- Styrene-free polyester resins for fixings into masonry building materials.
- Resin and hardener are stored in two separate chambers and are not mixed and activated until pushed through the static mixer.
- Partially-used cartridges can easily be reused by changing the static mixer.
- FIP 300 SF can be extruded by using a **conventional** application gun.
- FIS P 380 C in coaxial cartridge is extruded by using the **2 component FIPC applicator gun**.
- FIPC 700 F-bond can be extruded using the **2 component FIPC applicator gun**.

Advantages/Benefits

- Well performance in masonry building materials.
- Expansion-free anchoring. allows low axial spacing and edge distances.
- Extensive range of accessories for a wide variety of applications.

Accessories

- for fixing in masonry
- for fixing in aerated cement

Recommended loads

- for fixing in masonry
- for fixing in aerated cement

TECHNICAL DATA



Injection mortar
FIP 300 SF,
styrene free



Injection mortar
FIP C 700,
styrene free



Injection mortar
FIS P 380 C,
styrene free

Type	Art.-No.	ID	contents	qty. per box
				pcs.
FIP 300 SF	98184	2	1 cartridge 300 ml + 1 static mixer	6
FIS P 380 C	59234	2	1 cartridge 380 ml + 1 static mixer	6
FIP C 700	98183	-	1 cartridge 400 ml + 1 static mixer	12
FIS S	61223	1	10 static mixer	10

FIXING PRINCIPLES

In detail: The general principles for installation, the correct drilling procedure and much more on page 283.

Injection mortar FIS P

CURING TIME

Gelling and curing time of fischer FIP 300 SF

Cartridge temperature (mortar)	Gelling time	Temperature at anchor base	Curing time
5°C	15 - 30 min.	5°C	180 min.
10°C	10 - 20 min.	10°C	120 min.
20°C	5 - 10 min.	20°C	60 min.
30°C	3 - 6 min.	30°C	45 min.

Gelling and curing time of fischer FISP 380 C

Cartridge temperature (mortar)	Gelling time	Temperature at anchor base	Curing time
-	-	-5°C	360 min.
-	-	0°C	180 min.
5°C	13 min.	5°C	90 min.
10°C	9 min.	10°C	45 min.
20°C	5 min.	20°C	30 min.
30°C	4 min.	30°C	25 min.

Gelling and curing time of fischer FIP C 700

Cartridge temperature (mortar)	Gelling time	Temperature at anchor base	Curing time
5°C	15 - 30 min.	5°C	180 min.
10°C	10 - 20 min.	10°C	120 min.
20°C	5 - 10 min.	20°C	60 min.
25°C	3½ - 7 min.	25°C	28 min.
30°C	3 - 6 min.	30°C	45 min.

LOADS

Recommended loads for fischer FIP 300 SF

Description	Concrete Strength	M8	M10	M12	M16	M20	M24
Recommended tensile load $N_{rec}^{1)}$	(kN) 30N/mm ²	5.0	8.2	10.4	14.7	21.6	26.8
Characteristic axial spacing $S_{cr} \geq$	mm	80	90	110	125	170	210
Characteristic edge spacing $C_{cr} \geq$	mm	120	135	165	190	255	315
Maximum torque T_{inst}	Nm	10	20	40	80	150	200

¹⁾ Recommended N_{rec} applicable only when the specified edge and axial spacing are maintained.

²⁾ All tests were performed using grade 8.8 studs. All concrete was in dry condition and holes were thoroughly cleaned as per our installation recommendation. Concrete strength were determined using 100mm cubes.

Recommended loads for fischer FIP 380 C

Description	Concrete Strength	M8	M10	M12	M16	M20	M24
Recommended tensile load $N_{rec}^{1)}$	(kN) 25N/mm ²	4.2	6.3	8.6	12.0	18.8	24.0
Characteristic axial spacing $S_{cr} \geq$	mm	80	90	110	125	170	210
Characteristic edge spacing $C_{cr} \geq$	mm	120	135	165	190	255	315
Maximum torque T_{inst}	Nm	10	20	40	80	150	200

¹⁾ Recommended N_{rec} applicable only when the specified edge and axial spacing are maintained.

²⁾ All tests were performed using grade 5.8 studs. All concrete was in dry condition and holes were thoroughly cleaned as per our installation recommendation. Concrete strength were determined using 100mm cubes.

Recommended loads for fischer FIP C 700

Non-cracked 30N/mm ² concrete								
Anchor Size			M8	M10	M12	M16	M20	M24
Recommended load	N_{rec}	kN	4.15	7.70	7.96	12.30	17.81	22.00
Characteristic axial spacing	S_{cr}	mm	160	180	220	250	340	420
Characteristic edge spacing	C_{cr}	mm	80	90	110	125	170	210
Maximum torque	T_{inst}	Nm	10	20	40	80	150	200

The loading figures quoted are for concrete with compressive strength of 30 N/mm².