

Injection mortar FIS V / FIS VS / FIS VW

The high-performance hybrid mortar in the shuttle cartridge.

OVERVIEW

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Injection mortar
FIS V 360 S,
styrene free
- 

Static mixer **FIS S**
- 

Injection mortar
FIS V 950 S,
styrene free
- 

Static mixer **FIS S**
- 

Injection mortar
FIS VW 360 S
(Winter)
styrene free
- 

Injection mortar
FIS VS 360 S
(Summer)
styrene free
- 

Injection mortar
FIS VS 300 T
(Summer)
styrene free, for all
standard press guns
for sealants

Approvals: FIS V / FIS VS / FIS VW

- Building supervisory approval (DIBt) in combination with injection anchor sleeve FIS H K and injection anchor parts FIS A or FIS E for solid, perforated and hollow bricks (solid bricks also without anchor sleeves)
- European Technical Approval Option 7 in combination with threaded rods FIS A or RG M for non-cracked concrete
- Building supervisory approval (DIBt) for aerated concrete in combination with cone drill PBB centring sleeve PBZ and threaded rod FIS A.
- **The FIS V also has** building supervisory approval (DIBt) for rebar connections.
- Building supervisory approval (DIBt) for VBS 8 facing refurbishment anchor
- Building supervisory approval (DIBt) for weather bowl refurbishment system



For fixing of:

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

DESCRIPTION

- Styrene-free, quick-curing high-performance hybrid mortar (contains vinylester resin and cement).
- Resin and cement as well as water 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.
- FIS VW 360 S with accelerated curing especially during winter.
- FIS VS 300 T for all standard press guns for sealants.

Advantages/Benefits

- High-performance hybrid mortar for highest loads in almost all building materials.
- Universal fixing system for a broad range of applications on building sites.
- Expansion-free anchoring allows low axial spacings and edge distances.
- Extensive range of accessories for a wide variety of applications.
- Ergonomic application guns for quick and easy installation.
- A variety of approvals cover many applications in nearly all building material and guarantee maximum safety.

Accessories / Recommended loads

- For fixing in concrete, see page 81 et seq.
- For fixing in masonry, see page 87 et seq.
- For fixing in aerated concrete, see page 97
- For reinforcement bars, see page 101
- Appropriate application guns, see page 111/112



- First injection system world-wide with approvals for concrete, reinforcement bars, solid bricks, perforated bricks and aircrete.

FIXING PRINCIPLES

In detail: The general principles for installation, the correct drilling procedure and much more on page 26.

STANDARDS

You will find everything that has standards on page 34 under the keyword approvals.

Injection mortar FIS V / FIS VS / FIS VW

TECHNICAL DATA



Injection mortar **FIS V 360 S**,
styrene free



Injection mortar **FIS V 950 S**,
styrene free

Type	Art.No.	ID	approval	contents	languages on the label	shelf life	
						months	pcs.
			● DIBt ■ ETA				
FIS V 360 S	94404	2	● ■	1 cartridge 360 ml + 2 static mixer	D, F, NL, TR, H, RUS	18	6
FIS V 360 S	94405	9	● ■	1 cartridge 360 ml + 2 static mixer	GB, I, P, E, PRC, JP	18	6
FIS V 360 S	68435	1	● ■	1 cartridge 360 ml + 2 static mixer	DK, S, N, FIN, PL, CZ	18	6
FIS V 360 S Eastern Europe	41846	8	● ■	1 cartridge 360 ml + 2 static mixer	D, H, RO, SLO, HR, BG	18	6
FIS V 360 S Eastern Europe	43994	4	● ■	1 cartridge 360 ml + 2 static mixer	CZ, SK, PL, H, RO, RUS	18	6
FIS V 950 S	17101	1	● ■	1 cartridge 950 ml + 2 static mixer	D, GB, F, NL, I, E, P, JP, PRC	18	6
FIS S	61223	1		10 static mixer FIS V 360 S	-	-	10



Injection mortar **FIS VW 360 S**
(W = winter)



Injection mortar **FIS VS 300 T**
(S = summer)



Injection mortar **FIS VS 360 S**
(S = summer)

Type	Art.No.	ID	approval	contents	languages on the label	shelf life	
						months	pcs.
			● DIBt ■ ETA				
FIS VW 360 S	90753	5	● ■	1 cartridge 360 ml + 2 static mixer	D, GB, F, I, NL, E	15	6
FIS VW 360 S	43997	5	● ■	1 cartridge 360 ml + 2 static mixer	CZ, SK, PL, H, RO, RUS	15	6
FIS VW 360 S	45674	3	● ■	1 cartridge 360 ml + 2 static mixer	DK, FIN, NOR, S	15	6
FIS VS 360 S	1) 78664	2	● ■	1 cartridge 380 ml + 2 static mixer	GB, PRC, E, P, JP, RI	18	6
FIS VS 300 T	1) 93180	6	● ■	1 cartridge 300 ml + 2 static mixer	D, GB, F, I, NL, E	12	12
FIS VS 300 T	1) 93226	1	● ■	1 cartridge 300 ml + 2 static mixer	PL, CZ, DK, N, S, FIN	12	12
FIS VS 300 T	1) 44102	2	● ■	1 cartridge 300 ml + 2 static mixer	CZ, SK, PL, H, RO, RUS	12	12
FIS VS 300 T	1) 51058	2	● ■	1 cartridge 300 ml + 2 static mixer	CZ, SK, PL, H, RO, RUS	12	12

1) styrene free



Case set **FIS B**



FIS V 360 S HWK big



FIS V 360 S HWK small

Type	Art.No.	ID	contents	languages on the label	Qty. per box	
						pcs.
FIS B Case set	24870	6	3 x FIS V 360 S cartridges à 360 cm ³ /560 g, 1 x application gun FIS AK, 1 x blow-out pump, 1 x set of brushes, 1 x static mixer	D, F, NL, TR, H, RUS		1
FIS V 360 S HWK big	91936	1	20 x FIS V 360 S cartridge à 360 cm ³ /560 g, 40 x static mixer	D, F, NL, H, RUS, TR		1
FIS V 360 S HWK big	96554	2	20 x FIS V 360 S cartridge à 360 cm ³ /560 g, 40 x static mixer	GB, I, P, E, PRC, JP		1
FIS VS 360 S HWK set	49418	9	12 x FIS VS 360 S cartridge à 360 cm ³ /560 g, FIS AK gun, 24 x static mixer	GB, PRC, E, P, JP, RI		1
FIS V 360 S HWK small	92430	3	10 x FIS V 360 S cartridge à 360 cm ³ /560 g, 20 x static mixer	D, F, NL, H, RUS, TR		1

CURING TIME**Gelling and curing time of Injection mortar FIS V**

Cartridge temperature (mortar)	Gelling time	Temperature at anchoring base	Curing time
		- 5°C – ± 0°C	24 hrs.
		± 0°C – + 5°C	3 hrs.
+ 5°C – + 10°C	13 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.

Gelling and curing time of Injection mortar FIS VS (summer)

Cartridge temperature (mortar)	Gelling time	Temperature at anchoring base	Curing time
		± 0°C – + 5°C	6 hrs.
+ 5°C – + 10°C	20 min.	+ 5°C – + 10°C	3 hrs.
+ 10°C – + 20°C	10 min.	+ 10°C – + 20°C	2 hrs.
+ 20°C – + 30°C	6 min.	+ 20°C – + 30°C	60 min.
+ 30°C – + 40°C	4 min.	+ 30°C – + 40°C	30 min.

Gelling and curing time of Injection mortar FIS VW (winter)

Cartridge temperature (mortar)	Gelling time	Temperature at anchoring base	Curing time
		- 5°C – ± 0°C	3 hrs.
0°C – + 5°C	5 min.	± 0°C – + 5°C	90 min.
+ 5°C – + 10°C	3 min.	+ 5°C – + 10°C	45 min.
+ 10°C – + 20°C	1 min.	+ 10°C – + 20°C	30 min.
		- 5°C – - 10°C	8 hrs.
		- 10°C – - 15°C	12 hrs.

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.

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