

# CONCRETE INJECTION MORTAR



SCAN ME  
Terms and  
Conditions



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Catalogue



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Chemical Adhesive  
Data Sheet

DATA SHEET



**POSITIONING OF CONCRETE ANCHOR** - The Concrete Anchor must be in a position easily and safely reached from a safe access point. Concrete anchor should not be positioned close to an edge, minimum distance 150mm. Minimum concrete thickness 150mm.



**LOCATING THE REINFORCING STEEL BAR (REO BAR) IN THE CONCRETE** - Use *Digital metal detector* (Example: BOSCH DMO 10) to locate the Reo bar in the concrete when positioning the Concrete Anchor. This ensures reo bars are avoided when drilling.

**DRILLING THE HOLE** - Drill a hole to a depth and width as suggested in below table.

**PREPARING THE HOLE** - The hole must be moisture and dust free. Remove dust using compressed air, small brush, and vacuum cleaner.

## INSTALLING THE CONCRETE ANCHOR

- Recommended chemical is Fischer FIS-V.
- Prior to anchor installation, refer to installation procedure for individual anchor product and check chemical is within expiry date.
- The injection cartridge is for use with a standard caulking gun.
- Partially used cartridges can be re-used by changing the mixing nozzle.
- The entire surface of the anchors embedded section must be within the concrete and shall use sufficient adhesive mortar as specified in the table below.

PRODUCT CODE: CON-CHEM-FISV.300			
Product Code	Description	Qty	
CON-CHEM-FISV.300.01	Injection Mortar FIS V Cartridge 300ml	1	
CON-CHEM-FISMR	Static Mixer FIS MR	2	

FIS V 300T: INJECTION MORTAR					
APPLICATION	ANCHOR DIAMETER(mm)	DRILL HOLE DIAMETER(mm)	DRILL HOLE DEPTH(mm)	MORTAR/ FIXING(ml)	NO# OF FIXING/ CARTRIDGE
Concrete Insert	24	28	90	40	6
One Piece Eyebolt M12x90	12	14	90	10	28
One Piece Eyebolt M16x90	16	18	90	15	18
WindowLink	53&25	55&28	20&122	60	4
SwiveLink	24	28	90	40	6
M10x130 Rod – Guardrail	10	12	95	8	35
M12x160 Rod – Tuff Post	12	14	115	10	28
M12x160 Rod – X-Rail	12	14	95	10	28
M16x130 Rod – DonutLink FrogLine	16	18	95	15	18
M16x160 Rod – Tuff Post	16	18	115	15	18
M16x200 Rod – Davit	16	18	140	16	15

CURING TIME FIS V			
Cartridge Temperature (mortar)	Gelling Time	Temperature at anchoring base	Curing Time
		- 5°C - ± 0°C	24 hours
+ 0°C - + 5°C	13 minutes	± 0°C - + 5°C	3 hours
+ 5°C - + 10°C	9 minutes	+ 5°C - + 10°C	90 minutes
+ 10°C - + 20°C	5 minutes	+ 10°C - + 20°C	60 minutes
+ 20°C - + 30°C	4 minutes	+ 20°C - + 30°C	45 minutes
+ 30°C - + 40°C	2 minutes	+ 30°C - + 40°C	35 minutes

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, ie when interruptions occur in work, the mixer should be replaced.

## Testing for concrete mounted anchor.

To comply with current Standards each Concrete unit must be tested after installation. Allow required curing time as specified in above table before testing. Test consists of pull out force to 50% of design load of anchorage. **Note: Drilled-in anchorages such as friction and glued-in anchorages shall be placed so that the shear load is at least twice the tension load. For collared eyebolts this translates to a pull at an angle not exceeding 20 degrees to the surface in which the bolt is installed.**

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