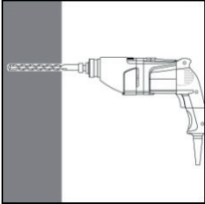
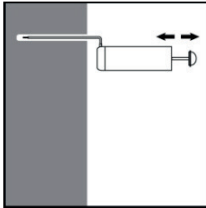
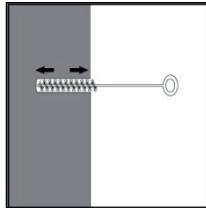
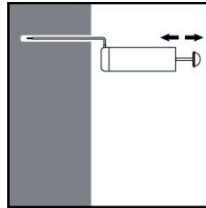
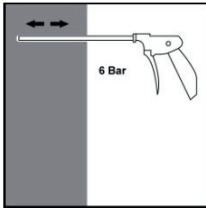
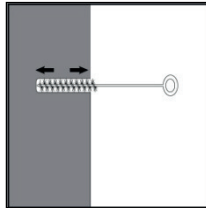
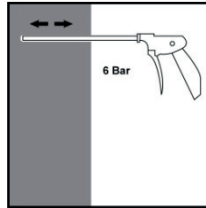



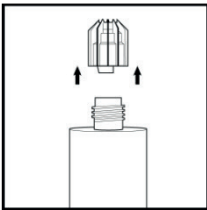
Hole preparation: The hole can be prepared by either (1) hammer drilling followed by cleaning or (2) dust free drilling using a hollow drill bit

(1)	
Hammer drilling	Cleaning
 <p>Drill hole in the substrate to the required diameter and embedment depth</p> <p>If hammer drilling, the hole must be thoroughly cleaned to ensure it is free of dust and debris before setting an anchor.</p>	<p>A Manual blow out pump can be used for blowing out drilled holes up to diameters $\leq 24\text{mm}$ and embedment depths up to 10 x drilled hole diameters.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Blow out at least 4 times from the back of the drilled hole, (if required with an extension)</p> </div> <div style="text-align: center;">  <p>Brush 4 times with the specified brush size (see table page 19) by inserting the steel brush to the back of the hole (if required with an extension) in a twisting motion and</p> </div> <div style="text-align: center;">  <p>remove the debris. Blow out again with pump at least 4 times.</p> </div> </div> <p style="text-align: center;">OR</p> <p>Clean with compressed air, which is suitable for all bore hole diameters and depths</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Blow twice from the back of the hole (if needed with a nozzle extension) over the whole length with oil-free compressed air (min. 6 bar at 6 m³/h).</p> </div> <div style="text-align: center;">  <p>Brush twice with the specified brush size (see table page 19) by inserting the steel brush to the back of the hole (if required with an extension) in a twisting motion and remove the debris.</p> </div> <div style="text-align: center;">  <p>Blow out again with compressed air at least twice.</p> </div> </div>

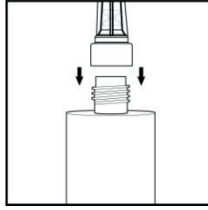
(2)	
Dust free drilling using hollow drill bits	
	<p>Select a suitable hollow drill bit and insert into the hammer drilling machine.</p> <p>Connect the dust extraction system to the adaptor in the hollow drill bit.</p> <p>Drill hole to the required embedment depth with the hammer drill set in rotation hammer mode and with the dust extraction system working permanently at full power.</p>
<p>Drill hole cleaning is not necessary when using the self cleaning drilling method</p>	

Inject and Install

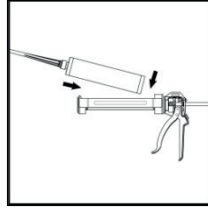
Inject



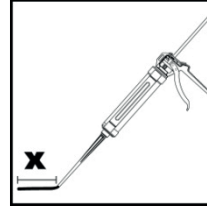
Remove the threaded cap from the cartridge.



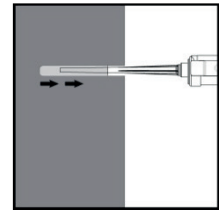
Tightly attach the mixing nozzle. Do not modify the mixer in any way. Make sure the mixing element is inside the mixer. Use only the supplied mixer.



Insert the cartridge into the dispenser gun.

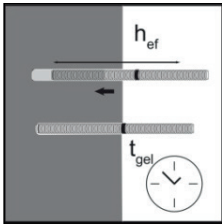


Discard the initial trigger pulls (10ml) of resin, until resin appears uniformly mixed.



Inject the adhesive starting at the back of the hole, slowly withdrawing the mixer with each trigger pull. Fill holes approximately 2/3 full, to ensure that the annular gap between the anchor and the concrete is completely filled with resin along the embedment depth.

Install

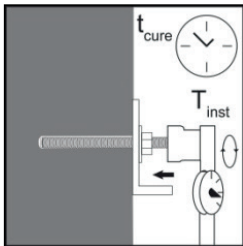


Before use, verify that the threaded rod is dry and free of contaminants. Install the threaded rod to the required embedment depth before the **gel working time** has elapsed. (see minimum curing times in table opposite)

Minimum curing time

Concrete Temperature	Gel Working Time	Minimum curing time in dry concrete	Minimum curing time in wet concrete
-10°C *	50 min	240 min	x2
-5°C *	40 min	180 min	x2
5°C	20 min	90 min	x2
15°C	9 min	60 min	x2
25°C	5 min	30 min	x2
35°C	3 min	20 min	x2

Full cure 24 hours
All specifications based on supplied mixer
* Resin temperature must be at least 20°C



The anchor can be loaded after the required **curing time** (see minimum curing times in table above).

The applied torque should not exceed the maximum value given in the table below.

Maximum applied torque

Stud (mm)	8	10	12	16	20	24	27	30	33	36
Nominal embedment (mm)	80	90	110	125	170	210	240	280	300	340
Hole Ø Concrete (mm)	10	12	14	18	22	28	30	35	37	40
Max Torque (Nm)	10	20	40	80	120	160	180	200	250	300

Hole cleaning - required brush sizes

If hammer drilling, the hole must be thoroughly cleaned to ensure it is free of dust and debris before setting an anchor. The table below specifies brush size required for each drill hole diameter:

Drill hole diameter (mm)	Brush diameter (mm)	Description	Length (mm)	Item code
8	9	9 x 120mm hole cleaning brush (for 8mm hole)	120	HC8
10	11	11 x 120mm hole cleaning brush (for 10mm hole)	120	HC10
12	13	13 x 150mm hole cleaning brush (for 12mm hole)	150	HC12
14	16	16 x 250mm hole cleaning brush (for 14mm hole)	250	HC14
16 / 18	20	20 x 250mm hole cleaning brush (for 16/18mm hole)	250	HC16
20 / 22	25	25 x 180mm hole cleaning brush (for 20/22mm hole)	180	HC20
24	26	26 x 300mm hole cleaning brush (for 24mm hole)	300	HC24
25	27	27 x 300mm hole cleaning brush (for 25mm hole)	300	HC25
28	30	30 x 350mm hole cleaning brush (for 28mm hole)	350	HC28
30 / 32 / 35	40	40 x 400mm hole cleaning brush (for 30/32/35mm hole)	400	HC30
40 *	42	42 x 170mm hole cleaning brush (for 40mm hole)	170	HC40
45 *	47	47 x 170mm hole cleaning brush (for 45mm hole)	170	HC45
55 *	58	58 x 170mm hole cleaning brush (for 55mm hole)	170	HC55
		M8 x 420mm brush extension	420	HCEXT420
		90mm SDS adapter for brush (40mm hole and over)	90	HCEXT90SDS

* 90mm SDS adapter must be used with hole diameters 40mm and over.