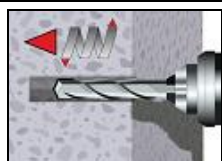
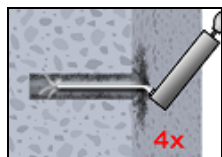


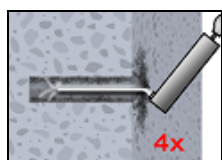
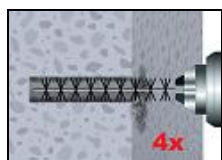
## Assembly instructions



- 1 Drill the hole of the required diameter into the concrete to the required embedment depth with a hammer drill (see Table B1). In case of aborted drill hole: the drill hole shall be filled with mortar.



or



or



**Attention! Standing water in the bore hole must be removed before cleaning.**

- 2a Starting from the bottom or back of the bore hole, blow the hole clean with compressed air (min. 6 bar) or a hand pump (Annex B2) a minimum of four times. If the bore hole ground is not reached an extension shall be used.

The hand-pump can be used for anchor sizes up to bore hole diameter 20 mm.

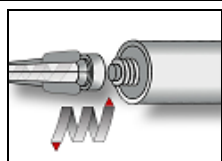
For bore holes larger than 20 mm or deeper 240 mm, compressed air (min. 6 bar) **must** be used.

- 2b Check brush diameter (Table B2) and attach the brush to a drilling machine or a battery screwdriver. Brush the hole with an appropriate sized wire brush >  $d_{b,min}$  (Table B2) a minimum of four times. If the bore hole ground is not reached with the brush, a brush extension shall be used (Table B2).

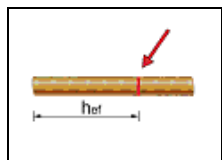
- 2c Finally blow the hole clean again with compressed air (min. 6 bar) or a hand pump (Annex B2) a minimum of four times. If the bore hole ground is not reached an extension shall be used.

The hand-pump can be used for anchor sizes up to bore holes diameter 20 mm. For bore holes larger than 20 mm or deeper 150 mm, compressed air (min. 6 bar) **must** be used.

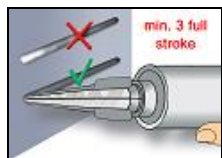
**After cleaning, the bore hole has to be protected against re-contamination in an appropriate way, until dispensing the mortar in the bore hole. If necessary, the cleaning repeated has to be directly before dispensing the mortar. In-flowing water must not contaminate the bore hole again**



3. Attach a supplied static-mixing nozzle to the cartridge and load the cartridge into the correct dispensing tool. Cut off the foil tube clip before use. For every working interruption longer than the recommended working time (Table B3) as well as for new cartridges, a new static-mixer shall be used.



4. Prior to inserting the anchor rod into the filled bore hole, the position of the embedment depth shall be marked on the anchor rods.



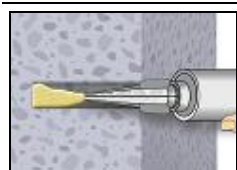
5. Prior to dispensing into the anchor hole, squeeze out separately a minimum of three full strokes and discard non-uniformly mixed adhesive components until the mortar shows a consistent grey colour. For foil tube cartridges it must be discarded a minimum of six full strokes.

**Würth Injection system for concrete**  
**WIT-PM 200, WIT-PM 200 express, WIT-PM 200 tropical**

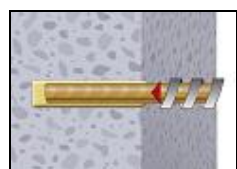
**Intended use**  
 Installation instructions

**Annex B 3**

## Assembly instructions (continuation)

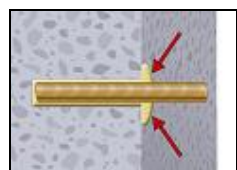


6. Starting from the bottom or back of the cleaned anchor hole fill the hole up to approximately two-thirds with adhesive. Slowly withdraw the static mixing nozzle as the hole fills to avoid creating air pockets. For embedment larger than 190 mm an extension nozzle shall be used. Observe the gel-/ working times given in Table B3.

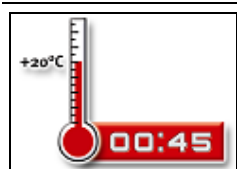


7. Push the threaded rod into the anchor hole while turning slightly to ensure positive distribution of the adhesive until the embedment depth is reached.

The anchor should be free of dirt, grease, oil or other foreign material.



8. Be sure that the anchor is fully seated at the bottom of the hole and that excess mortar is visible at the top of the hole. If these requirements are not maintained, the application has to be renewed. For overhead application the anchor rod should be fixed (e.g. wedges).



9. Allow the adhesive to cure to the specified time prior to applying any load or torque. Do not move or load the anchor until it is fully cured (attend Table B3).



10. After full curing, the add-on part can be installed with the max. torque (Table B1) by using a calibrated torque wrench.

**Table B3: Minimum curing time**

Concrete temperature [°C]	WIT-PM 200 tropical		WIT-PM 200		WIT-PM 200 express	
	working time [min]	minimum curing time [min]	working time [min]	minimum curing time [min]	working time [min]	minimum curing time [min]
-10 to -6					60	240
-5 to -1			90	360	45	120
0 to +4			45	180	25	80
+5 to +9			25	120	10	45
+10 to +14	30	300	20	100	4	25
+15 to +19	20	210	15	80	3	20
+20 to +29	15	145	6	45	2	15
+30 to +34	10	80	4	25		
+35 to +39	6	45	2	20		
+40 to +44	4	25				
+45	2	20				
Cartridge temperature	+5°C to +45°C		+5°C to +40°C		-5°C to +30°C	

**Würth Injection system for concrete**  
**WIT-PM 200, WIT-PM 200 express, WIT-PM 200 tropical**

**Intended use**  
 Installation instructions (continuation)  
 Curing time

**Annex B 4**