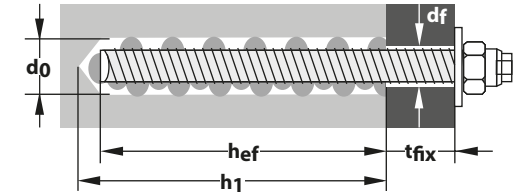




## Features

In addition to the composite mortar, this complete set includes everything for processing:

- Composite mortar **Liquix Pro 1**
- Cartridge gun **Liquix Blaster**
- Sieve sleeve **Liquix Sleeve**
- Blow-out pump **Taifun**
- Cleaning brushes **Brush**
- Mixing tubes for composite mortar cartridges **Liquix Mix**



Pack	Item No.	Type	Content	Diameter	Length	Drill Ø	Min. Drill hole depth	Min. Setting Depth	Threaded rod	Approval
		<b>Liquix Set</b>	<b>per range</b>	<b>Ø mm</b>	<b>mm</b>	<b>d<sub>0</sub>/d<sub>f</sub> Ø mm</b>	<b>h<sub>1</sub> ≥ mm</b>	<b>h<sub>ef</sub> mm</b>	<b>Stix Ø mm</b>	<b>ETA</b>
		Liquix Pro 1 280 ml	4x	-	280	-	-	-	-	■
		Liquix Blaster	1x	-	-	-	-	-	-	-
		Liquix Sleeve	8x	16	85	16/12	90	85	M10	■
		Taifun 240 ml	1x	-	-	-	-	-	-	-
	084 909 251	Brush	1x	10	300	-	-	-	-	-
		Brush	1x	13	300	-	-	-	-	-
		Brush	1x	18	300	-	-	-	-	-
		Brush	1x	28	300	-	-	-	-	-
		Liquix Mix	6x	-	200	-	-	-	-	■





Liquix Pro 1 in concrete C20/25	M8	M10	M12	M16	M20	M24	M27	M30
<b>Effective anchoring depth <math>h_{ef}^1</math></b>	60-160 mm	60-200 mm	70-240 mm	80-320 mm	90-400 mm	96-480 mm	108-540 mm	120-600 mm
<b>Permissible loads</b>								
<b>Permissible central tension load of a single anchor without environmental effects <math>N_{ZU1}</math> in uncracked concrete C20/25</b>								
Threaded rod galvanised, property class 5.8	720-860 kg	900-1380 kg	1140-2000 kg	1400-3710 kg	1670-5810 kg	1840-8380 kg	2190-10950 kg	2570-13330 kg
Threaded rod A4, property class 5.8 $\geq M24 \leq 70$	720-990 kg	900-1570 kg	1140-2250 kg	1400-4200 kg	1670-6530 kg	1840-9430 kg	2190-5740 kg	2570-7020 kg
<b>Permissible shear loads of a single anchor without environmental effects <math>V_{ZU1}</math> in uncracked concrete C20/25</b>								
Threaded rod galvanised, property class 5.8	510 kg	860 kg	1200 kg	2230 kg	3490 kg	4410-5030 kg	5260-6570 kg	6160-8000 kg
Threaded rod A4, property class 5.8 $\geq M24 \leq 70$	600 kg	920 kg	1370 kg	2520 kg	3940 kg	4410-5680 kg	3450 kg	4200 kg
<b>Permissible central tension load of a single anchor without environmental effects <math>N_{ZU1}</math> in cracked concrete C20/25</b>								
Threaded rod galvanised, property class 5.8	290-770 kg	370-1250 kg	580-1970 kg	880-3510 kg	1170-5490 kg	1290-7900 kg	1530-10950 kg	1800-13300 kg
Threaded rod A4, property class 5.8 $\geq M24 \leq 70$	290-770 kg	370-1250 kg	580-1970 kg	880-3510 kg	1170-5490 kg	1290-7900 kg	1530-5740 kg	1800-7020 kg
<b>Permissible shear loads of a single anchor without environmental effects <math>V_{ZU1}</math> in cracked concrete C20/25</b>								
Threaded rod galvanised, property class 5.8	510 kg	860 kg	1200 kg	2230 kg	2800-3490 kg	3085-5030 kg	3680-6570 kg	4310-8000 kg
Threaded rod A4, property class 5.8 $\geq M24 \leq 70$	600 kg	920 kg	1370 kg	2350-2520 kg	2800-3490 kg	3080-5670 kg	3450 kg	4200 kg
<b>Component dimensions and installation characteristics</b>								
Minimum axis distance $s_{min}$	40 mm	50 mm	60 mm	80 mm	100 mm	120 mm	135 mm	150 mm
Minimum edge distance $c_{min}$	40 mm	50 mm	60 mm	80 mm	100 mm	120 mm	135 mm	150 mm
Minimum component thickness $h_{min}$	----- $h_{ef} + 30 \text{ mm} \geq 100 \text{ mm}$ -----			----- $h_{ef} + 2d_0$ -----				
Drill nominal diameter $d_0$	10 mm	12 mm	14 mm	18 mm	24 mm	28 mm	32 mm	35 mm
Drill hole depth $h_1$	60-160 mm	60-200 mm	70-240 mm	80-320 mm	90-400 mm	96-480 mm	108-540 mm	120-600 mm
Through hole in the component to be connected $d_f \leq$	9 mm	12 mm	14 mm	18 mm	22 mm	26 mm	30 mm	33 mm
Torque during anchoring $T_{inst} \leq$	10 Nm	20 Nm	40 Nm	80 Nm	120 Nm	160 Nm	180 Nm	200 Nm

- The specified loads refer to anchorings of single anchors in wet and dry concrete as well as for anchorings from -40° C to +24° C (or briefly up to +40° C)
  - When sizing, the entire declaration of performance of the Liquix Pro 1 must be observed
  - The partial safety factors of the resistances specified in the approval and a partial safety factor of  $\gamma_F = 1.4$  are to be considered
- <sup>1</sup> The anchoring depth  $h_{ef}$  can be freely selected between the values  $h_{ef \text{ min}}$  und  $h_{ef \text{ max}}$

**Curing times for composite mortar Liquix Pro 1:**

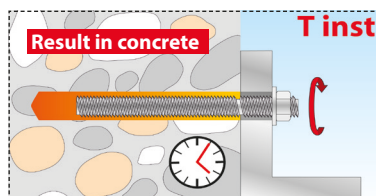
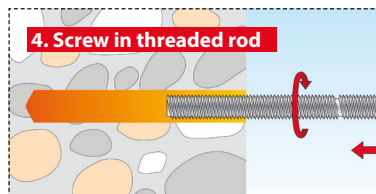
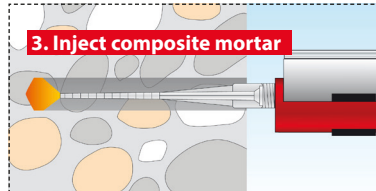
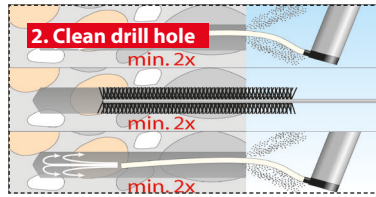
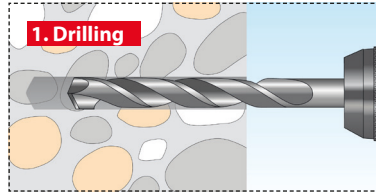
Concrete temperature	Processing time	Minimum curing time in dry concrete	Minimum curing time in wet concrete
$\geq -10^\circ \text{C}^*$	90 min.	24 h	48 h
$\geq -5^\circ \text{C}$	90 min.	14 h	28 h
$\geq 0^\circ \text{C}$	45 min.	7 h	14 h
$\geq +5^\circ \text{C}$	25 min.	2 h	4 h
$\geq +10^\circ \text{C}$	15 min.	80 min.	160 min.
$\geq +20^\circ \text{C}$	6 min.	45 min.	90 min.
$\geq +30^\circ \text{C}$	4 min.	25 min.	50 min.
$\geq +35^\circ \text{C}$	2 min.	20 min.	40 min.
$\geq +40^\circ \text{C}$	1.5 min.	15 min.	30 min.

\*The cartridge temperature must be at least +15° C

## Processing & Installation

- In perforated brick, work with sieve sleeve
- Cleaning the drill holes
- Screw static mixer tightly onto the cartridge
- Mark setting depth differing from standard onto anchor rod
- Discard the first approx. 10 cm of the composite mortar and do not use it for fixing
- Fill the cleaned drill hole approx. 2/3 of the way from the base of the drill hole or, if a sieve sleeve is used, fill it completely with composite mortar
- Insert the anchor rod with slight turning movements to the specified setting depth
- Observe the torques and curing times of the respective valid permits
- The mortar may be used in wet or dry concrete as well as in water-filled drill holes
- For the processing of coaxial, peeler and tubular film cartridges, use the Liquix Blaster and Liquix Blaster Pro cartridge guns; for side-by-side cartridges use the Liquix Blaster Plus

### Installation in concrete and solid masonry



### Installation in perforated brick

