

## INTRODUCTION

**Konfix300p** is a medium duty, styrene free, low VOC, fast curing, two part polyester adhesive anchoring system that is suitable for use in solid and hollow base materials (use of sleeve required for hollow materials).

**Konfix300p** is packaged in a 300ml cartridge & applied in one single action through a proprietary static mixer nozzle and can be dispensed with a standard caulking gun.

**Konfix300p** features a patented opening and sealing cap system that requires no cutting of the inner bag.

The primary application for **Konfix300p** is the anchoring of threaded rod or reinforcing bar into concrete and masonry base materials.

The proprietary static mixer nozzle ensures efficient mixing of the 2 parts with minimal waste.

**Konfix300p** adhesive injection system is user friendly, provides excellent performance and a cost effective adhesive anchoring solution.



### Estimated Volume - 300ml (with 10% waste calculated)

	Rod size					
	M8	M10	M12	M16	M20	M24
No of anchors per cartridge	71	48	31	20	7	5
Drill hole size	10	12	14	18	24	28
Embed depth	80	90	110	125	170	210
Volume per hole (ml)	3.8	5.6	8.6	13.5	37.8	58.8

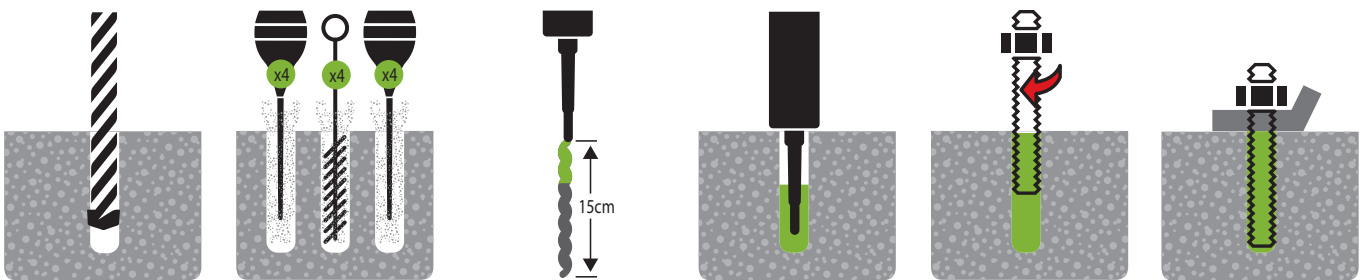
Performance in Concrete							Limit State Design			
TENSION							SHEAR			
Threaded Rod Size	Hole Size (mm)	Embed Depth (mm)	Concrete 32MPa	Design Steel Capacity			Concrete 32MPa	Design Steel Capacity		
			Design Capacity $\phi N_A$ (kN)	Class 5.8 $\phi N_{t1}$ (kN)	Class 8.8 $\phi N_{t2}$ (kN)	(A4 -70) 316 SS $\phi N_{t3}$ (kN)	Design Capacity $\phi V_A$ (kN)	Class 5.8 $\phi V_{t1}$ (kN)	Class 8.8 $\phi V_{t2}$ (kN)	(A4 -70) 316 SS $\phi V_{t3}$ (kN)
M8	10	80	12.1	15.2	23.4	17.2	10.1	9.0	13.9	11.3
M10	12	90	18.2	24.1	37.1	27.2	13.9	14.3	22.0	17.9
M12	14	110	25.8	35.1	54.0	39.5	23.8	20.8	32.0	26.0
M16	18	125	43.3	65.3	100.5	73.6	37.6	39.0	60.0	48.4
M20	24	170	57.3	101.9	162.7	114.9	62.5	60.9	97.2	75.5
M24	28	210	71.7	146.8	234.4	165.6	113.4	87.6	139.9	108.7

Loads in kN for a single anchor in Non-Cracked Concrete with out edge or spacing influences. Performance based on clean holes; HAMMER DRILLED - blown and then brushed with a stiff brush & blown again.

Setting Time				
Temp - Base Material (°C)	5°	15°	25°	35°
Working Time/ Gel Time	15 min	8 min	5 min	3 min
Curing Time	2hr	1hr	45 min	30 min

- Temperature refer to the base material temperature, not the ambient air temperature.
- Full cure is achieved after 24 hours. All specifications are based on use of the correct mixer nozzle.
- Working time / gel time is the maximum time before adhesive begins to set, calculated from time when adhesive is dispensed.
- Cure Time is the minimum time required before the adhesive reaches its published loads.

### Installation in Solid Base Material



- Hole preparation should be to correct diameter and depth.
- Clean out hole thoroughly of dust and spoil by repeat blowing and brushing action.
- Unscrew Cap and screw on mixing nozzle supplied and place in suitable applicator tool.
- For new cartridges dispense a bead of adhesive until even and consistent colour is present to ensure correct mix of adhesive
- Place nozzle to the rear of the hole and pump adhesive whilst slowly withdrawing the nozzle back, avoid creating air pockets and fill the hole at least half full.
- Push the Rod/Stud or Bar into the adhesive while turning one way slowly until correct embedment depth is reached and some adhesive has flowed to the top of the hole. Always ensure that anchor rods / bars are clean and free from oil, grease and dirt.
- Once installed, do not touch or load the anchor until the adhesive is fully cured. (See appropriate adhesive label for curing times).