



C950 CHEMICAL ANCHOR PUR EPOXY

1 – DESCRIPTION

Akfix C950 is a heavy duty epoxy injection mortar for solid base materials. It works in dry, damp and flooded holes with a fast curing time.

2 – PROPERTIES

- Works in damp and flooded holes
- No shrinkage, can be used in oversized holes
- Suitable for reinforcing bars in plain structures
- Styrene free, very low odour
- Thixotropic, can be applied in both vertical and horizontal directions
- Fast curing

3 - APPLICATIONS

- Heavy load-carrying attachments in solid stone and concrete.
- Repair mortar or adhesive mortar for concrete components.
- Attachment of anchor rods, threaded collars, reinforcement bars, profiles etc.
- Medium-load applications in hollow-bricks.
- Fixing of;
 - Wooden constructions
 - Metal constructions
 - Metal profiles
 - Sanitary fittings
 - Pipe connections
 - Projecting roofs
 - Facades
 - Cable trays
 - Railings
 - Staircases
 - Gates
 - Window elements

4 - INSTRUCTIONS

CARTRIDGE USE

- Unscrew the cap of the cartridge
- Screw the mixing nozzle onto cartridge
- Insert the cartridge in the gun
- Remove the mixture until the two components have a homogeneous light grey colour in the nozzle (Avoid using the first 10 ml)



APPLICATION

- Choose a drill of suitable dimensions depending on the rod to be anchored
- Remove the water and dirt (dust and loose material) with a circular brush and a blower or with air pressure
- The items to be fastened must be clean
- In the case of a solid base material, inject the product from the base of the hole until 2/3 full
- Insert the element to be fastened rotating, if necessary, keep the position with a suitable device
- Unscrew the mixing nozzle and replace the cap

5- PACKAGING

Product	Volume	Package
C950	400 ml	12

6- STORAGE AND SHELF LIFE

Store the product in a ventilated place away from direct exposure to sunlight. Keep between +5°C and +25°C. Once the package is opened, it should be used in a month. Shelf life of the unopened original packaging is one year from manufacturing date.

7- SAFETY

- Before injection, verify the expiry date of the product, the support resistance and the ambient temperature. Settings in any subsequent adjustment are only possible during working time.

8- TECHNICAL PROPERTIES

PHYSICAL PROPERTIES

Basis	: Epoxy / Aliphatic amine system
Color	: Light Grey (Component A:white; Comp. B:black)
Density	: 1,60 kg/l at 20 °C

WORKING AND HARDENING TIMES

Base Material Temperature (°C)	10	20	30	40
Working Time	20'	12'	8'	5'
Loading Time	24h	6h	4h	3h

NUMBER OF ANCHORS BY DIAMETER

ANCHOR	
Diameter (mm)	400 ml
8	90/100
10	55/60
12	32/36
16	13/15
20	8/9



PERFORMANCE DATA FOR RODS INTO CONCRETE

Anchoring	Rod Class	Drill diameter d_0	Embedment depth h_{ef}	Standard edge distance C_{cr}	Standard anchoring distance S_{cr}	Torque moment T_{inst}	Resistance	Admissible Loads	
							Characteristic resistance N_{rk}	Concrete C20/25	Concrete C20/25
		mm	mm	mm	mm	N.m	Tensile (kN)	Tensile (kN)	Shear (kN)
	M8	10	80	80	160	10	29,5	9,8	8,1
	M10	12	90	90	180	20	46,4	18,4	12,9
	M12	14	110	110	220	40	74,8	24,9	18,7
	M16	18	125	125	250	80	131,9	44,0	34,9
	M20	24	170	170	340	100	146,5	48,8	54,4

Safety factor for tension load is 3