Henkel Quality for Professionals

Pattex

CF900

CHEMICAL ANCHOR
VINYLESTER RESIN

PROFI POWER COMES FROM PATTEX

Henkel KGaA IPM PROFESSIONAL ADHESIVES
Henkelstr. 67 · D - 40191 Düsseldorf · Germany

Henkel

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Pattex

CF900

CHEMICAL ANCHOR
VINYLESTER RESIN

INSTRUCTIONS FOR USE

ETA CE 0756
Henkel KGaA
05
0756-cpd-0095
ETA-05/0133
ETAG 001-5 Option 7
M10 – M16

ETA CE 0756
Henkel KGaA
05
0756-cpd-0096
ETA-05/0134
ETAG 001-5 Option 7
M10 – M16

ETA CE 0756
Henkel KGaA
05
0756-cpd-0097
ETA-05/0135
ETAG 001-5 Option 7
M10 – M16

CHEMICAL ANCHOR CF900

STYRENE-FREE VINYLESTER RESIN ANCHORING works in solid or hollow materials and places where expandable dowels cannot be used. Cures underwater.

VINYLESTER TECHNOLOGY

Classical vinylester and the 2-component injection mortar made from them combine the thermal and mechanical properties of epoxy resins with the easy and fast processability of unsaturated polyester resins. The vinylester resins and the reactive resin mortar made from them are characterised by a very high chemical resistance.

USAGE INSTRUCTIONS

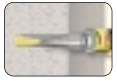
UNDERSURFACE: CONCRETE, SOLID STONE


1. drill hole with percussion drill


2. clean drill hole (4x blowing 4x brushing 4x blowing)

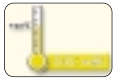

3. screw mixer to cartridge


4. squeeze out approx. 10 cm of compound before use


5. fill in mortar fully from end of hole


6. push in anchor, turning slightly, up to base of hole


7. visual check of mortar filling


8. push in anchor, turning slightly, up to base of hole


9. install component apply torque

UNDERSURFACE: HOLLOW BRICK


1. drill hole without percussion drill


2. clean drill hole (2x blowing 2x brushing 2x blowing)


3. insert sleeve collar


4. screw mixer to cartridge

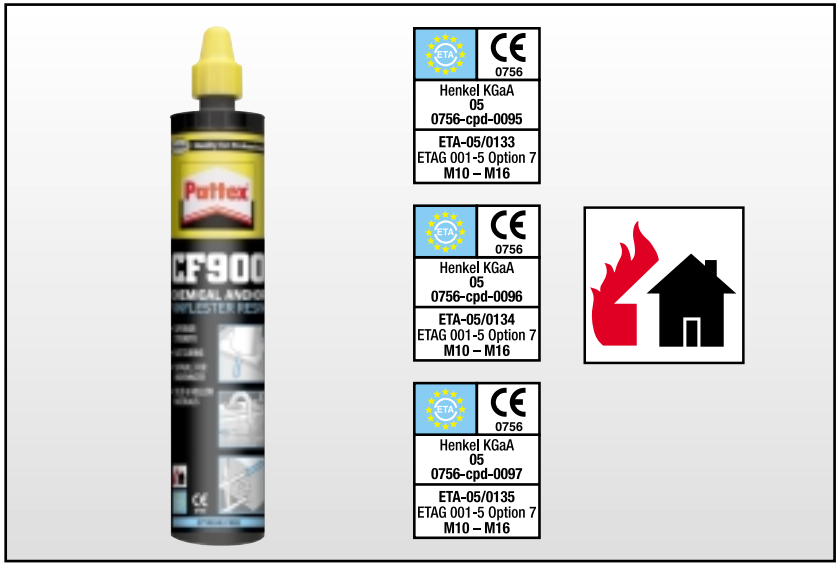

5. squeeze out approx. 10 cm of compound before use


6. fill in mortar fully from end of sleeve collar


7. push in anchor, turning slightly, up to base of collar


8. observe hardening time


9. install component apply torque



MINIMUM CURING TIME

CONCRETE TEMPERATURE	CURING START/ WORKING TIME	MINIMUM CURING TIME IN DRY CONCRETE	MINIMUM CURING TIME IN WET CONCRETE
≥ - 5 °C	90 min	6 h	12 h
≥ - 5 °C	45 min	3 h	6 h
+ 5 °C	25 min	2 h	4 h
+ 10 °C	15 min	80 min	160 min
+ 20 °C	6 min	45 min	90 min
+ 30 °C	4 min	25 min	50 min
+ 35 °C	2 min	20 min	40 min

Europäische Technische Zulassung - Option 7 für ungerissenen Beton

PERFORMANCE DATA / CONCRETE

Performance data determined in accredited Chemofast testing laboratory

PERFORMANCE DATA / CONCRETE

	Plug diameter [mm]		M8	M10	M12	M16	M20
Load	Concrete ≥ B25	$F_{rec.}$ [kN]	5,6	8,8	12,3	17,5	24,5
	Concrete ≥ B15		4,3	6,8	9,5	13,5	19,0
	Porous concrete ≥ B15		1,2	1,2	1,2	-	-

$F_{rec.}$ [kN] = inc. safety factor calculated to ETAG.
Values valid for anchor rods 5.8, zinc galvanised / A4-70

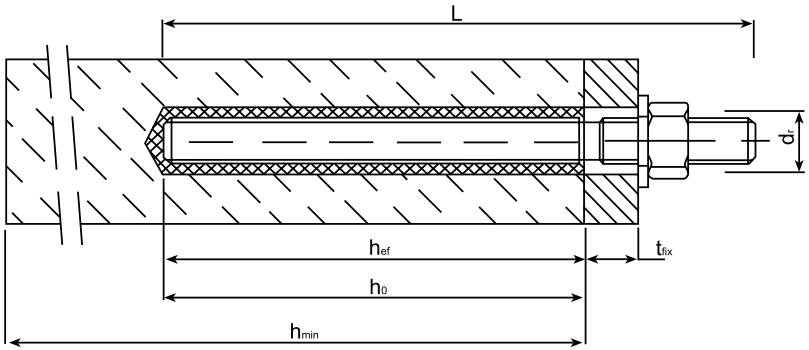
PERFORMANCE DATA / HOLLOW BRICK

PERFORMANCE DATA / HOLLOW BRICK

	Plug diameter [mm]		M6	M8	M10	M12
Recommand load (tension, transverse and angular tension at any angle)	Hollow brick	$F_{rec.}$ [kN] ≥ Hlz 4	0,3	0,3	0,3	0,3
		$F_{rec.}$ [kN] ≥ Hlz 6	0,4	0,4	0,4	0,4
		$F_{rec.}$ [kN] ≥ Hlz 12	0,7	0,8	0,8	0,8
	Sand-lime hollow brick	$F_{rec.}$ [kN] ≥ KSL 4	0,3	0,4	0,4	0,4
		$F_{rec.}$ [kN] ≥ KSL 6	0,4	0,6	0,6	0,6
		$F_{rec.}$ [kN] ≥ KSL 12	0,7	0,8	0,8	0,8
	Light concrete hollow brick	$F_{rec.}$ [kN] ≥ Hbl 4	0,5	0,6	0,6	0,6
	Concrete hollow brick	$F_{rec.}$ [kN] ≥ Hbn 4	0,5	0,6	0,6	0,6

INSTALLATION PARAMETERS

Anchor size		M10	M12	M16
Nominal drill hole diameter	d_0 [mm] =	12	14	18
Cutting diameter of drill bit	d_{cut} [mm] ≤	12.5	14.5	18.5
Depth of drill hole	h_0 [mm] ≥	90	110	125
Diameter of clearance hole in the fixture	d_f [mm] ≤	12	14	18
Diameter of steel brush	d_b [mm] ≥	14	16	20
Torque moment	T_{inst} [Nm]	20	40	60
Thickness of fixture	min t_{fix} [mm] >	0	0	0
	max t_{fix} [mm] <	1400	1380	1380
Minimum thickness of member	h_{min} [mm]	130	160	160
Minimum spacing	s_{min} [mm]	90	110	125
Minimum edge distance	c_{min} [mm]	45	55	62.5



CHEMICAL ANCHORS ARE BASED ON TWO DIFFERENT TYPES OF CHEMICAL SYSTEMS:

REACTION RESIN MORTAR SYSTEM

Materials	▶ for use in various solid stones
	▶ concrete
	▶ hollow brick
Boring Method	▶ can be used only in rough hammer-drilled holes
Drill Holes	▶ suitable for drill holes with a gap of up to 2mm between anchor and substrate (due to shrinkage)
Curing time	▶ fast

EPOXID SYSTEM

Materials	▶ for use only in solid materials
	▶ for underwater and wet applications
	▶ for highest performance under all conditions
Boring Method	▶ for use in smooth, diamond-drilled holes
Drill Holes	▶ suitable for drill holes with a gap of up to 4mm between anchor and substrate (due to shrinkage)
Curing time	▶ slow

UNSATURATED POLYESTER
Pattex CF800

- Meets basic expectations for all general applications
- Highest shrinkage
- Lowest loads
- Limited chemical resistance
- Not recommended for wet and water- filled drill holes

STYRENE FREE POLYESTER
Pattex CF850

- Meets basic expectations for all general applications
- Limited chemical resistance
- Not recommended for wet and water- filled drill holes

VINYLESTER Pattex CF900

- Certified as fire resistant up to F 120
- Very good thermal and mechanical properties
- Highest chemical resistance of the reaction resins
- Suitable for wet and water-filled drill holes
- National and European approvals for brickwork and concrete

PURE EPOXY Pattex CF1000

- Newest technology
- Highest chemical resistance & highest strength of all four systems
- Can even be used underwater
- NO shrinkage
- More flexible in elevated temperatures

PATTEX CLEANING PUMP

PATTEX NYLON-CYLINDER-BRUSH
with woodhandle for hollow materials

PATTEX WIRE BRUSH
with M6 steel thread, for anchor rods
M8 115x80x12mm / M10 115x80x14mm

PATTEX SLEEVES
13x100mm / 15x100mm

PATTEX STANDARD ANCHOR RODS
M8x100 / M10x110, quality 5.8

PATTEX SPECIAL STATIC MIXER

PATTEX UNIVERSAL GUN
can be used with:

- Foil tube 300ml
- Peeler 280ml
- Coaxial 150ml, 380ml, 410ml
- Side by side 385ml