

SIGILLITE PE CE-7

Two-component styrene-free polyester chemical anchor



DESCRIPTION

Polyester resin with strong grip and very low odor level; specific for fixing anchors, screws, threaded bars to concrete and other solid or perforated building materials and anchoring panels, railings, shutters, facade cladding etc. It does not create tension in the base material which makes it ideal for artistic restoration interventions avoiding the problems associated with the need for holes close together or near the edges.

CERTIFICATIONS:

ETA-22/0304 - EAD 330499-01-0601 M8 to M16 for concrete

ETA-22/0305 - EAD 330076-00-0604 M8 to M12 for masonry

APPLICATION FIELDS

High adhesion anchor for medium-heavy fastenings. Suitable for all support materials; particularly suitable for perforated material or materials of poor consistency, using the special cage. Thanks to the absence of styrene and the characteristic slightly pungent odor, it allows easy use even indoors. It does not require premixing: the resin and hardener are mixed only during extrusion in the special static mixer supplied.

FEATURES

- High mechanical performance
- Fast hardening
- Styrene free - Low odor
- Does not expand, does not create tensions
- Suitable for concrete and masonry both solid and perforated.

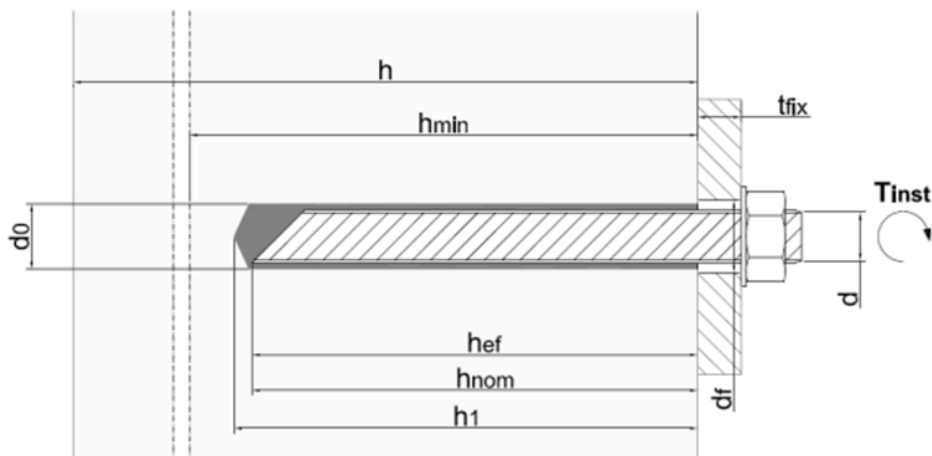
SETTING TIMES and TEMPERATURES

Resin temperature [°C]	Gel time	Cure time after...
5	15 min	2 h
10	12 min	1 h 30 min
20	6 min	45 min
25	4 min	30 min
30	3 min	20 min

Minimum resin temperature +5°C.

TECHNICAL DATA
Fixing on concrete C20/25 with zinc plated threaded rods class 5.8

Dimensioni caratteristiche Characteristic measurements			M8	M10	M12	M16	M20*	M24*
d₀	Diametro foro Hole diameter	[mm]	10	12	14	18	24	28
h₁	Profondità foro Hole depth	[mm]	85	95	115	130	175	215
h_{nom}	Profondità nominale di ancoraggio Embedment depth	[mm]	80	90	110	125	170	210
h_{min}	Spessore minimo materiale di base Minimum base material thickness	[mm]	115	120	140	161	218	266
T_{inst}	Coppia di serraggio Fixing torque	[Nm]	10	25	45	90	150	200
S_{cr,N}	Interasse Centre spacing	[mm]	240	270	330	375	510	630
C_{cr,N}	Distanza dal bordo trazione Edge distance tensile	[mm]	120	135	165	168	255	315
S_{min}	Interasse minimo Minimum spacing	[mm]	40	50	60	75	100	115
C_{min}	Distanza dal bordo minima Minimum edge distance	[mm]	40	50	60	75	100	115
S_w	Chiave Hex key	[mm]	13	17	19	24	30	36
d_f	Ø foro nell'oggetto da fissare Hole trough fixture	[mm]	9	12	14	18	22	26



RECOMMENDED LOADS

General safety factor included

Fixing on uncracked concrete C20/25 with threaded rods class 5.8

		M8	M10	M12	M16	M20	M24
Trazione <i>Tensile</i>	[kN]	9,0	14,0	18,4	23,3	29,6	38,7
Taglio <i>Shear</i>	[kN]	5,4	8,6	12,5	23,3	36,2	52,5

Fixing on solid brick and solid masonry

Barra cl 4.8 <i>Rod cl 4.8</i>	Diam. foro <i>Hole diam.</i>	Prof. foro <i>Hole depth</i>	Spess. Fissabile <i>Fix. thickness</i>	Serraggio <i>Torque</i>	Traz. cons. <i>Recom. tensile</i>	Taglio cons. <i>Recom. shear</i>
M 8 x 100	10 mm	85 mm	10 mm	7 Nm	2,0 kN	3,0 kN
M 10 x 115	12 mm	90 mm	20 mm	15 Nm	2,6 kN	3,4 kN
M 12 x 130	14 mm	100 mm	30 mm	25 Nm	2,8 kN	3,9 kN

Fixing on perforated brick using the plastic sleeve

Barra cl 4.8 <i>Rod cl 4.8</i>	Diam. foro <i>Hole diam.</i>	Prof. foro <i>Hole depth</i>	Spess. Fissabile <i>Fix. thickness</i>	Serraggio <i>Torque</i>	Traz. cons. <i>Recom. tensile</i>	Taglio cons. <i>Recom. shear</i>
M 8 x 100	16 mm	90 mm	10 mm	5,0 Nm	0,9 kN	2,0 kN
M 10 x 115	16 mm	90 mm	20 mm	7,5 Nm	0,9 kN	2,0 kN
M 12 x 130	16 mm	90 mm	30 mm	10,0 Nm	0,9 kN	2,5 kN

Recommended loads for applications on base materials with medium strength characteristics.
For different masonry base materials, load values must be obtained with in situ tests.

APPLICATION/INSTALLATION

- 1) Make the hole checking its perpendicularity.
- 2) Blow the hole with a special blower pump (or compressed air), clean the side surface of the hole with a special brush, blow the hole again until no more dust and / or other residual material comes out.
- 3) Unscrew the cap, screw on the mixer and insert the cartridge into the gun.
In 300 ml formats, unscrew the cap and remove the metal clip by inserting the mixer into the slot of the plastic extractor and pulling the extractor to remove the metal clip closing the bag.
Then screw the mixer, insert the cartridge into the gun.
- 4) Extrude a first part of the product making sure that the two components are completely mixed. Complete mixing is achieved when the product, obtained from the union of the two components, comes out of the mixer with a uniform color. Only then the cartridge is ready for use.
- 5) Extrude the resin into the hole until it is 2/3 full. In case of perforated material, insert the plastic cage and then extrude into the cage.
- 6) Use a threaded rod cut at 45° in the end towards the hole. Insert the bar with a rotating movement to release the air bubbles.
- 7) Wait for the hardening and installation times indicated in the technical sheet.

CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES

Clean used tools with acetone. When the adhesive has not yet hardened, it can be removed from the squeegee using paper or a cloth. Once hardened, the product can only be removed mechanically. It is advisable to protect the face. Avoid contact with the skin, possibly using latex, rubber or polyethylene gloves. In case of contact with the skin, wash immediately with soap and water.

PACKAGING

PE-cartridge 300ml; 12 cartridges per box

PE-cartridge 400ml; 12 cartridges per box

STORAGE AND SHELF LIFE

SIMP FIX can be stored for 12 months in its original packaging, in a cool and dry place. Keep away from sources of humidity, sources of heat and direct contact with sunlight.

GENERAL INFORMATIONS

The information contained in this technical data sheet is to the best of our knowledge correct, being based on our knowledge and experience to date and cannot be used as a guarantee, due to the various different materials present on the market and the fact that the application conditions are not under our direct control and supervision. NPT srl, however, guarantees constant product quality. NPT srl, has the right to modify or up-date this technical data sheet according to requirements. Customers are kindly requested to verify that they are in possession of the latest version.

ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET BEFORE USING THE PRODUCT