



BIT-PESF



A two component chemical anchoring injection system. A formulation derived from polyester resin with high bond strength, developed principally to anchor threaded rods into concrete, and for masonry and hollow wall installations. Used widely for medium loads in both horizontal and vertical applications.

• CHARACTERISTICS

- Suitable for medium loads for non-critical applications.
- Fast working times for early loading in time sensitive applications.
- No styrene allows for use indoors and in enclosed spaces.
- Use in damp & wet environments and fixing holes.
- Extremely versatile in masonry, hollow, aerated concrete.
- Crack and gap filling repairs in concrete vertical or horizontal.
- 10:1 resin available in a variety of cartridge types.

• APPROVALS / CERTIFICATIONS / TESTING

- 15/0116 - ETA Option 7 Non-Cracked Concrete. Includes flooded holes.
- 13/0143 - ETA ETAG 029 Hollow Wall / Masonry Installations.
- CE Certified 1404-CPR-2586 / 2762 - ZAG, Slovenia.
- LEED tested 2009 EQ c4.1 SCAQMD rule 1168 (2005.)
- VOC A+ Rating (Volatile Organic Content)

• PHYSICAL PROPERTIES

- Mixed Colour - Grey
- Density - 1.71 kg/m³
- Compressive Strength - 43.5 N/mm² (EN ISO 604)

• TYPICAL TENSILE PERFORMANCE - STANDARD EMBEDMENT DEPTH

Concrete, C20/25, 5.8 Grade Studding						
Size	Recommended Load (kN)		Spacing (S _{crN})	Drill Hole Ø	Fixing Hole Ø	Setting Depth
	Tension (N _{rec})	Shear (V _{rec})	(mm)	(mm)	(mm)	(mm)
M8	8.36	5.14	160	10	9	80
M10	11.79	8.57	200	12	12	90
M12	17.29	12.00	240	14	14	110
M16	24.93	22.29	320	18	18	125
M20	38.14	34.86	400	22	22	170
M24	50.29	50.29	450	28	26	210
M30	68.07	81.43	520	35	32	280

• CARTRIDGE SIZES

165ml | 300ml | 410ml
345ml | 825ml





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• WORKING AND HARDENING TIMES

Base Material Temperature	-10°C**	-5°C**	5°C	15°C	25°C	35°C
Gel Working Time	50'	40'	20'	9'	5'	3'
Curing Time Dry Concrete	240'	180'	90'	60'	30'	20'
Curing Time Wet Concrete	x 2	x 2	x 2	x 2	x 2	x 2

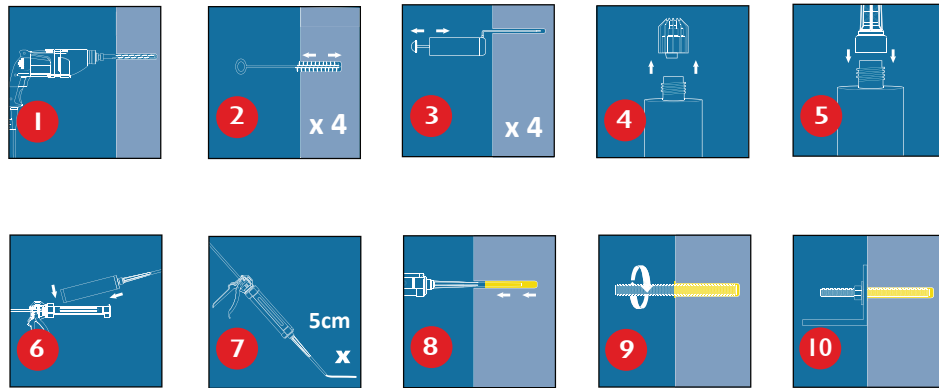
**Resin Temperature must be at least 20°C

• APPROVALS

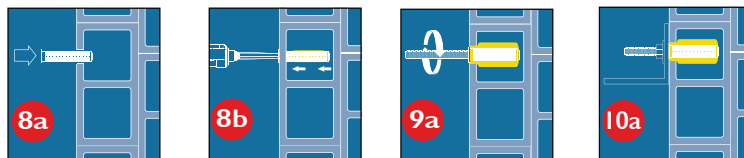
CE 1404 BIT United Ltd 2019	CE 1404 BIT United Ltd 2019
DoP: www.bitunited.co.uk/dop/pesf	DoP: www.bitunited.co.uk/dop/pesf
BIT-PESF ETA-13/0143 EAD 330076-00-0604 Use category c.wild 1404-CPR-2762	BIT-PESF ETA-15/0116 EAD 330499-01-0601 M8 - M16 Uncracked Concrete 1404-CPR-2586

• INSTALLATION

Solid substrates



Hollow wall



For further information please refer to the Technical Data Sheet in the website customer area, or by request.

• STORAGE / SHELF

This product should be stored between +0°C & +30°C.

Avoid Direct Sunlight

The Shelf life of the product is 18 months from the manufacture date.

The information and data given is based on our own experience, research and testing and is believed to be reliable and accurate. However, as BIT cannot know the varied uses to which its products may be applied, or the methods of application used, no warranty as to the fitness or suitability of its products is given or implied. It is the users responsibility to determine suitability of use. For further information please contact our Technical department.

Manufactured in the UK