

Product Description

EPOXY ACRYLATE based two-component bonded anchoring system for stress-free fixing into solid and hollow substrates. With superior bond strength compared to its polyester based counterpart, this product is suitable for more demanding applications. Available in 300 ml cartridges and may be applied with standard caulking guns.

DYNA® FIX was especially formulated with the following benefits:

- Economical injection system with reduced drilling diameters
- Anchors may be placed close to free edges
- May be applied in dry, wet or even flooded conditions with performance uncompromised.
- Variable embedment depths
- Ratio of 10:1
- ETA approval

Cartridges should be stored in their original packaging, the correct way up, in cool conditions (+5°C to +25°C) out of direct sunlight.

When stored correctly, the product shelf life will be 12 months from the date of manufacture.

DYNA® FIX EPOXY CHEMICAL ANCHORING offers excellent adhesion to building material such as **concrete, masonry (solid and hollow), hard natural stone, solid rock, voided stone or rock etc.** It is used in rebar applications, starter bars, crash barriers, masonry support, safety railing and fencing etc.



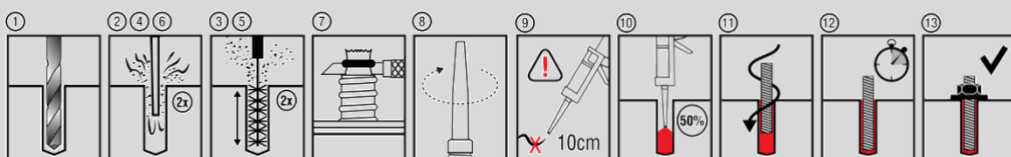
Approvals



ETA-14/0184



Installation Instructions



Installation Parameters

Size			M8	M10	M12	M16	M20	M24
Nominal drill hole diameter	$\varnothing d_o$	[mm]	10	12	14	18	22	26
Diameter of cleaning brush d_o	d_o	[mm]	14	14	20	20	29	29
Torque moment T_{inst}	T_{inst}	[Nm]	10	20	40	80	150	200
$h_{ef,min} = 8d$								
Depth of drill hole h_o	h_o	[mm]	64	80	96	128	160	192
Minimum edge distance c_{min}	c_{min}	[mm]	35	40	50	65	80	96
Minimum spacing s_{min}	s_{min}	[mm]	35	40	50	65	80	96
Minimum thickness of member h_{min}	h_{min}	[mm]	$h_{ef} + 30 \text{ mm} \geq 100 \text{ mm}$				$h_{ef} + 2d_o$	
$h_{ef,max} = 12d$								
Depth of drill hole h_o	h_o	[mm]	96	120	144	192	240	288
Minimum edge distance c_{min}	c_{min}	[mm]	50	60	70	95	120	145
Minimum spacing s_{min}	s_{min}	[mm]	50	60	70	95	120	145
Minimum thickness of member h_{min}	h_{min}	[mm]	$h_{ef} + 30 \text{ mm} \geq 100 \text{ mm}$				$h_{ef} + 2d_o$	

Working & Loading Times

Resin cartridge Temperature °C	T Work minutes	Base Material Temperature °C	T Load minutes
+5 to +10	12	+5 to +10	120
+10 to +20	6	+10 to +20	80
+20 to +25	4	+20 to +25	40
+25 to +30	3	+25 to +30	30
+30 to +35	2	+30 to +35	20
+35 to +40	1.5	+35 to +40	15
+40	1.5	+40	10

Note: T Work is the typical time to gel at the highest temperature in the range.

Physical Properties

Property		Unit	Value	Test Standard
Density		g/cm ³	1.7	ASTM D 1875 @ +20°C
Compressive Strength	4 hours	N/mm ²	60	BS6319
	24 hours		70	
	7 days		75	
Compressive E-Modulus	7 days	GN/m ²	3.13	ASTM D 695 M @ +20°C
Tensile Strength	24 hours	N/mm ²	11	ASTM D 638 @ +20°C
	7 days		13	
Tensile Strength	24 hours	%	0.09	ASTM D 638 @ +20°C
Elongation at Break	7 days		0.12	
Flexural Strength	7 days	N/mm ²	24	ASTM D 790 @ +20°C

Limitations

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that DYNA® FIX products are safe, effective, and compatible for the intended end use. Sole warranty is that the product will meet the DYNA® FIX sales specifications in effect at the time of delivery. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.