

TECHNICAL DATA SHEET

Polyester Chemical Fixing

Product description

Two-component polyester resin-based chemical fixing anchor with no styrene or phthalates and with catalyst. The product is presented in a standard cartridge for application with a standard gun.

Withstands medium loads.

Can be used on hollow and compact substrates.

Technical characteristics

- Does not expand, enabling fixings in fragile substrates or near corners.
- High load-bearing capacity.
- Vibration- and weather-resistant.
- Protects fixings from weather-related degradation.

Hardening table

Temperature	Handling Time	Final Drying Time
5 °C	25 min.	120 min.
10 °C	15 min.	80 min.
20 °C	6 min.	45 min.
30 °C	4 min.	25 min.
35 °C	2 min.	20 min.

Tensile and compressive strength test

Sample	Drying time	Density (kg/dm ³)	Tensile strength (N/mm ²)	Compressive strength (N/mm ²)
1	24 hr.	1.67	58	103/111
2	24 hr.	1.67	58	105/107
3	24 hr.	1.67	52	110/111
Average		1.67	56	108

Sample preparation and testing developed according to EN 196 Part 1.

Test performed on three 40 x 40 x 160-mm samples

Tensile test speed: 50 ± 10 N/s

Compressive test speed: 2400 ± 200 N/s

Load resistance

- Performance on concrete:

Hole size		M8	M10	M12	M16	M20
Concrete ≥ B25	kN	4.7	6.4	9.0	10.5	11.8
Concrete ≤ B25	kN	3.6	5.0	7.1	8.1	9.1
Porous concrete ≥ B25	kN	1.2	1.2	1.2	-	-
Strength [kN]: including ETAG safety factor						
Valid values for anchors 5.8; galvanised zinc/A4-70						

900 kg: load resistance according to the following table for M12 anchor.

- Performance on hollow substrate:

Hole size		M6	M8	M10	M12
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
Hollow lightweight concrete brick	F rec [kN] ≥ Hlz 4	0.3	0.4	0.4	0.4
	F rec [kN] ≥ Hlz 6	0.4	0.6	0.6	0.6
	F rec [kN] ≥ Hlz 12	0.7	0.8	0.8	0.8
Hollow concrete brick	F rec [kN] ≥ Hlz 2	0.3	0.3	0.3	0.3
	F rec [kN] ≥ Hlz 4	0.5	0.6	0.6	0.6
	F rec [kN] ≥ Hlz 4	0.5	0.6	0.6	0.6
Recommended load					

Coverage

- Performance on compact substrates:

Fixing diameter	M8	M10	M12	M16	M20	M24	M30
Hole diameter (mm)	10	12	14	18	24	28	35
Depth (mm)	80	90	110	125	175	210	280
Anchors/cartridge 300 ml	80	49	30	16	6	4	2

- Performance on hollow substrates:

Fixing diameter	M8	M10	M12	M16
Hole diameter (mm)	10	12	14	18
Perforated sleeve size	13x85	13x85	13x85	18x85
Anchors/cartridge 300 ml	24	24	24	13

Applications

- Attaching lights or signs.
- Attaching machinery.
- Attaching stairs.
- Safety anchorage for awnings or aerials.
- Anchoring rods, bolts etc. and metal construction parts.

Instructions for use

- Hollow substrates:

1. Thoroughly clean the substrate by brushing and/or compressed air.
2. Fit the appropriate perforated sleeve.
3. Apply the chemical fixing, discarding the first product mix until a uniform grey mixture is extruded, completely filling the perforated sleeve.
4. Position the mechanical fastener, rotating it.
5. Load time: see hardening table.

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- Compact substrates:

1. Thoroughly clean the substrate by brushing and/or compressed air.
2. Apply the chemical fixing, discarding the first product mix until a uniform grey mixture is extruded, filling the hole by 60 %.
3. Position the mechanical fastener, rotating it.
4. Load time: see hardening table.

Under no circumstances should the mixing nozzle be cut: reducing the mixing distance and increasing the passage of product would prevent the resin and the catalyst from being mixed homogeneously, causing the adhesive not to cure.

Dissolving and cleaning

This product is extremely resistant to solvents once hardened.

Remove using acetone or polar solvents before hardening and by mechanical means after hardening.

Storage

Shelf life: 18 months, stored between 10 °C and 25 °C in its original container and protected from direct sunlight and moisture.

Safety precautions

Keep out of the reach of children.

More detailed instructions are given in the relevant product safety data sheet.

The user shall take ultimate responsibility for determining the final suitability of the product in all types of application.

The information given in this Technical Data Sheet should never be considered as a specification of the product's properties.

We guarantee the uniformity of the properties of our products in all supplies. The recommendations and information published in this technical data sheet are based on our current knowledge and rigorous laboratory tests. Due to the many variations in each project's materials and conditions, we ask our customers to conduct their own tests of utility under the expected working conditions and following our general instructions. This will avoid any subsequent damage, for the consequences of which the company is not responsible.