Technical Datasheet

# EPOMAX-ANCHOR

## Fast-curing anchoring adhesive for rebar

### Description

EPOMAX-ANCHOR is a two-component polyester-based anchoring adhesive. It does not contain solvents and styrene and has no shrinkage behavior.
Classified A+ (the highest rating), according to the French VOC regulation, for evaluation of VOC emissions.

### Fields of application

EPOMAX-ANCHOR can be used as a fast-curing anchoring adhesive for reinforcing rods, steel bars, threaded rods, anchor bolts, etc. It can be used to install these elements into concrete, solid stone, hollow and solid brickwork, etc.

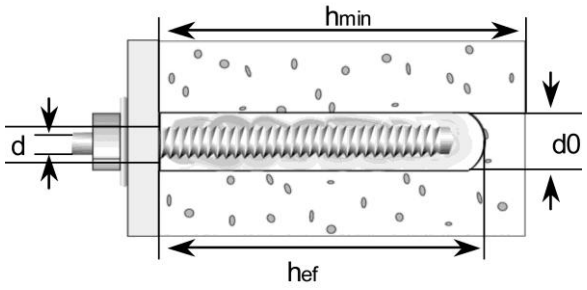
### Technical data

| | |
|---|---|
| Base: | styrene-free polyester |
| Color: | grey |
| Mixing ratio (A:B): | 10:1 ratio by volume |
| Density: | 1.79 kg/l |
| Application temperature: | +5°C – +35°C |

Curing times:

| Concrete temperature [°C] | Working time [min] | Curing time [min] |
|---|---|---|
| -10 – -6 | | |
| -5 – -1 | 90 | 360 |
| 0 – +4 | 45 | 180 |
| +5 – +9 | 25 | 120 |
| +10 – +14 | 20 | 100 |
| +15 – +19 | 15 | 80 |
| +20 – +29 | 6 | 45 |
| +30 – +34 | 4 | 25 |
| +35 – +39 | 2 | 20 |
| +40 – +44 | | |
| +45 | | |
| Cartridge temperature | +5°C – +40°C | |

| | |
|---|---|
| Compression strength: (EN 196-1) | 88 N/mm$^2$ after 24 h |




### Directions for use

**1. Installation to concrete or solid stone**
Drill correct diameter hole to the recommended depth. Then, clean the hole thoroughly with a nylon brush and remove any loose particles using compressed air, hand pump, etc.
Screw the mixer to the cartridge, after that, attach the mixer nozzle to the end of the cartridge and insert the cartridge into the applicator gun. Afterwards squeeze out to discard approximately 15 ml of compound, this quantity is not used. Starting from the back end, fill the hole completely with the resin. Push anchor up to base of hole whilst turning it slightly. A visual check of resin filling is necessary.
Allow the material to cure before attaching fixings and applying loads. Consult the relative table of curing times for EPOMAX-ANCHOR.

**2. Installation to hollow bricks and artificial stone**
Drill hole without percussion drill. Then remove any loose particles using compressed air, hand pump, etc. Screw the mixer to the cartridge, after that, attach the mixer nozzle to the end of the cartridge and insert the cartridge into the applicator gun. Afterwards squeeze out to discard approximately 15 ml of compound, this quantity is not used.
Insert the perforated sleeve in the hole.
Starting from the back end, fill the perforated sleeve with resin. Afterwards, push anchor up to the base of the sleeve whilst turning it slightly. Allow the material to cure before attaching fixings and applying loads. Consult the relative table of curing times for EPOMAX-ANCHOR.

### Consumption

Depending on the application.

# EPOMAX-ANCHOR

## Recommended loads

### Threaded rod

The recommended loads are only valid for single anchors for a roughly design if the following conditions are valid:

- $c \geq 1.5 \times h_{ef}$ $s \geq 3.0 \times h_{ef}$ $h \geq 2.0 \times h_{ef}$
- $\psi_{sus}$ = 1.0; percentage of dead load $\leq \psi^0_{sus}$ see table below
- The recommended loads have been calculated using the partial safety factors for resistances stated in the ETA and with a partial safety factor for actions of $\gamma_f$ = 1.4. The partial safety factor for seismic action is $\gamma_1$ = 1.0.

If the conditions are not fulfilled the loads must be calculated acc. to EN 1992-4. For further details, observe the specifications of ETA 13/0031.

| • Property class 5.8<br>• Concrete - C20/25<br>• Hammer drilling (HD)<br>• Dry, wet concrete | | | | | **M8** | **M10** | **M12** | **M16** | **M20** | **M24** |
|---|---|---|---|---|---|---|---|---|---|---|
| Recommended tension load | 40°C / 24°C [1] | uncracked | $N_{rec,stat}$ | [kN] | 6.8 | 9.0 | 13.2 | 19.9 | 33.9 | 50.3 |
| | 80°C / 50°C [1] | | $N_{rec,stat}$ | [kN] | 5.2 | 6.7 | 9.9 | 15.0 | 25.4 | 37.7 |
| Recommended shear load without lever arm [2] | | | $V_{rec,stat}$ | [kN] | 6.3 | 9.7 | 14.3 | 20.8 | 34.1 | 48.1 |
| Embedment depth | | | $h_{ef}$ | [mm] | 80 | 90 | 110 | 125 | 170 | 210 |
| Edge distance | | | c ≥ | [mm] | 120 | 135 | 165 | 187.5 | 255 | 315 |
| Axial distance | | | s ≥ | [mm] | 240 | 270 | 330 | 375 | 510 | 630 |

[1] Short-term temperature/ Long-term temperature.

[2] Shear loads are valid for all specified temperature ranges.

$N_{rec,stat}$, $V_{rec,stat}$ = Recommended load under static and quasi-static action

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore, the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. | Edition: 10.06.2025

# EPOMAX-ANCHOR

| Anchor size | | M8 | M10 | M12 | M16 | M20 | M24 |
|---|---|---|---|---|---|---|---|
| Nominal drill hole diameter | d0 [mm] = | 10 | 12 | 14 | 18 | 24 | 28 |
| Effective anchorage depth | hef,min [mm] = | 60 | 60 | 70 | 80 | 90 | 96 |
| | hef,max [mm] = | 160 | 200 | 240 | 320 | 400 | 480 |
| Diameter of clearance hole in the fixture | df [mm] ≤ | 9 | 12 | 14 | 18 | 22 | 26 |
| Diameter of steel brush | db [mm] ≥ | 12 | 14 | 16 | 20 | 26 | 30 |
| Torque moment | Tinst [Nm] ≤ | 10 | 20 | 40 | 80 | 120 | 160 |
| Thickness of fixture | tfix,min [mm] > | 0 | | | | | |
| | tfix,max [mm] < | 1500 | | | | | |
| Minimum thickness of member | hmin [mm] | hef + 30 mm ≥ 100 mm | | | hef +2d0 | | |
| Minimum spacing | smin [mm] | 40 | 50 | 60 | 80 | 100 | 120 |
| Minimum edge distance | cmin [mm] | 40 | 50 | 60 | 80 | 100 | 120 |

## Packaging

300 ml cartridges.

## Shelf life – Storage

12 months, in dry, frost-free conditions.

## Remarks

EPOMAX-ANCHOR can be applied at low ambient temperatures up to -5°C but the temperature of the product must be at least +10°C.

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