



# Anchor

## CHEMICAL ANCHOR

- ✓ For concrete, solid and hollow stone
- ✓ Free from styrene and phthalates
- ✓ Also under water
- ✓ From -10°C

## Technical Info

- Product based on: Vinyl ester resins, free of styrene- and phthalate.
- Colour: grey.
- Odour: Weak, low-odour.
- Application temperature (ambient): between -10°C and +40°C.
- Application temperature (cartridge): between +5°C and +20°C.
- Temperature resistance after complete hardening: from -40°C to +80°C, with peaks up to +120°C.
- Density: 1,66 kg/dm<sup>3</sup>.
- Compressive strength: 103 N/mm<sup>2</sup>.
- Bending strength: 37 N/mm<sup>2</sup>.
- Dynamic elastic modulus: 1200 N/mm<sup>2</sup>.
- Chemical resistance: high.
- Shelf life: 18 months, kept dry, cool and frost free.
- Safety measures: Please consult the safety data sheet.

## Packing

Anchor - cartridge 280ml

610148000

## Product

### Characteristics

Anchor is a 2-component chemical anchor based on styrene-free vinylester resins in a standard cartridge, sprayable with a Tec Gun. The mixing of the two components is achieved by using static mixing tips. The unique combination of quick hardening, wide application margins and physical properties make it a unique chemical anchor in the professional market for effective fixing and assembly in all building materials, such as concrete, solid and hollow brick, aerated concrete,... Anchor resists high forces and can be used on wet surfaces, even under water, at temperatures from -10°C to +40°C. After rapid curing, Anchor is stronger than the substrate: without shrinkage, therefore reliable, and without expansion, therefore low-stress. Safe, environmentally friendly and user-friendly. Can also be used indoors: styrene-free, phthalate-free, low odour. Thanks to its exceptionally high UV and chemical resistance, even against chlorinated and salt water, Anchor can be used in aggressive environments. Anchor is dimensionally stable and can also be used overhead in holes in the ceiling. Very long shelf life, even when opened and used.

### Applications

- Fastening and assembly of structures in all building materials, including concrete, even cracked, lightweight concrete, foamed concrete, solid masonry, solid and hollow brick, natural stone (note: test natural stone for discolouration).
- Anchoring of e.g. handrails, sanitary appliances, cable ducts and pipes, metal profiles, reinforcement iron, internal threaded rods, threaded rods, façade plates, natural stone,...
- Can also be used as repair mortar for concrete: as a filler for superfluous drill holes.
- Due to its expansion-free hardening, it can be used for anchoring with limited space between axle and wall.

## Use

- Drill a hole with the correct diameter (see diagram).
- Clean the drill hole with a brush, pump or compressed air.
- Place Anchor in a Tec Gun and attach the mixing tip.
- Spray out about 10 cm to ensure correct mixing of the two components
  - a. For full brick: fill the borehole from the back to the front.
  - b. For hollow stone: use a Harpoon plug and fill it with Anchor.
- Insert the threaded rod in a circular motion.
- Remove excess product.

Anchor can be used at temperatures up to -10° C as long as the cartridge is at room temperature (+15°C).

The cartridge can be stored after use, closed with the protective screw cap.



## DRILL SIZES AND PULLING FORCE

| Threaded end | Drill | Drill depth mm | Pulling Force |
|--------------|-------|----------------|---------------|
| M8           | 10    | 80             | 15,9 kN       |
| M10          | 12    | 90             | 25,0 kN       |
| M12          | 14    | 110            | 34,9 kN       |
| M16          | 18    | 125            | 49,9 kN       |

## ANCHOR AS A CHEMICAL ANCHOR FOR SOLID CONCRETE

| Rod end $\varnothing$ | Number of attachments per cartridge |
|-----------------------|-------------------------------------|
| M8                    | 48                                  |
| M10                   | 32                                  |
| M12                   | 20                                  |
| M16                   | 8                                   |

## WITH PLUGS

### PLUG 13: Drill hole of $\varnothing 13$ mm to $\varnothing 16$ mm

| Rod end $\varnothing$ | Number of attachments per cartridge |
|-----------------------|-------------------------------------|
| M8                    | 48                                  |
| M10                   | 32                                  |
| M12                   | 20                                  |
| M16                   | 8                                   |

### PLUG 15: Drill hole of $\varnothing 15$ mm to $\varnothing 18$ mm

| Rod end $\varnothing$ | Number of attachments per cartridge |
|-----------------------|-------------------------------------|
| M12                   | 8-10                                |
| M10                   | 8-9                                 |
| M8                    | 7-8                                 |

## HARDENING

| Temperature | Open working time | Hardening dry surface | Hardening wet surface |
|-------------|-------------------|-----------------------|-----------------------|
| -10°C       | 90 min            | 24 h                  | 48 h                  |
| -5°C        | 90 min            | 14 h                  | 28 h                  |
| 0°C         | 45 min            | 7 h                   | 14 h                  |
| +5°C        | 25 min            | 2 h                   | 4 h                   |
| +10°C       | 15 min            | 80 min                | 160 min               |
| +20°C       | 6 min             | 45 min                | 90 min                |
| +30°C       | 4 min             | 25 min                | 50 min                |
| +35°C       | 2 min             | 20 min                | 40 min                |
| +40°C       | 1,5 min           | 15 min                | 30 min                |