



# Techmofix - 1000

## Polyester grout

### Description:

TECHMOFIX - 1000 is a polyester grout multifunctional media both solid and hollow, fast setting.

It is used in concrete, brick and hollow concrete blocks in a wide range of applications: fixing gates, railings, balustrades, shutters, awnings, antennas, signals, cable trays, industrial machinery ...

### Features

- Suitable for solid and hollow supports
- High solids
- Easy extrusion and injection

### Handling and Curing Times

- Thixotropic can be applied in the horizontal direction or vertical
- Fast cure

### Physical Characteristics:

- Nature: unsaturated polyester resin
- Color: gray (Comp. A: beige, Comp. B: black)
- Specific gravity: 1.70 kg / l at 20 ° C

### Accessories:

- Mixing nozzle
- twin-piston Gun
- Sieve for hollow supports fixing
- Wire brush
- Mancha

| Temperature base material | (°BCC) | 0   | 5   | 10 | 15 | 20 | 25 | 30 | 35 |
|---------------------------|--------|-----|-----|----|----|----|----|----|----|
| Time manipulation         | (min)  | 25  | 15  | 12 | 8  | 6  | 4  | 3  | 2  |
| Charging time             | (min)  | 180 | 120 | 90 | 60 | 45 | 30 | 20 | 15 |

### Application Chart Holders Hollow Rods

| Anchorage |               |                   | Installation |                |                                     | Allowable Loads                       |             |                                                   |             |
|-----------|---------------|-------------------|--------------|----------------|-------------------------------------|---------------------------------------|-------------|---------------------------------------------------|-------------|
| Nozzle    | Rod Class 5,8 | Diameter Drill d° | Depth Drill  | Depth hef hole | Torque tightening T <sub>inst</sub> | Hollow bricks f <sub>cm</sub> :4,5MPa |             | Building Blocks concrete f <sub>cm</sub> :6,00MPa |             |
|           |               | (mm)              | (mm)         | (mm)           | (N.m)                               | Traction (kN)                         | Shears (kN) | Traction (kN)                                     | Shears (kN) |
| 16/85     | M8            | 17                | 90           | 85             | 4                                   | 0,40                                  | 1,10        | -                                                 | -           |
| 16/85     | M10           | 17                | 90           | 85             | 4                                   | 0,40                                  | 1,10        | -                                                 | -           |
| 16/85     | M12           | 17                | 90           | 85             | 4                                   | 0,40                                  | 1,10        | -                                                 | -           |
| 16/130    | M8            | 17                | 135          | 130            | 4                                   | -                                     | -           | 0,70                                              | 1,50        |
| 16/130    | M10           | 17                | 135          | 130            | 4                                   | -                                     | -           | 0,70                                              | 1,50        |
| 16/130    | M12           | 17                | 135          | 130            | 4                                   | -                                     | -           | 0,70                                              | 1,50        |

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**Madrid** C/ Mar del Tirreno, 13. Polígono Industrial San Fernando Norte. 28830 San Fernando de Henares - Madrid. Tlf.: 918 270 123 - Fax: 911 018 152 - centro@tecnicashm.com

**Barcelona** Avenida Arrahona, 58. Polígono Industrial Can Salvatella, 08210 Barbera del Vallès. Tlf.: 930 002 900 - Fax: 931 000 643 - barcelona@tecnicashm.com

**Málaga** C/ Espacio, 26. Nave 108/C. Polígono Industrial San Luis de Málaga. 29006 Málaga. Tlf.: 627 170 632 - Fax: 911 018 152 - malaga@tecnicashm.com

**Gran Canaria** C/ Las Mimosas, Fase 1, Nave 35A-35B2. Polígono Industrial de Arinaga, 35118 Agüimes - Gran Canaria. Tlf.: 928 189 355/56 - Fax: 928 188 041 - central@tecnicashm.com

**Tenerife** C/ Benjamin Franklin, Nave 9. Polígono Industrial El Chorrillo. 38109 Santa Cruz de Tenerife - Tenerife. Tlf.: 922 537 672 - Fax: 922 625 807 - tenerife@tecnicashm.com

**Fuerteventura** C/ El Trillo, Parcela 14, Nave 34. Polígono Industrial El Matorral. 35610 El Matorral - Puerto del Rosario. Tlf.: 928 543 412 - Fax: 928 543 481 - fuerteventura@tecnicashm.com



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## Application Chart Holders Hollow Rods

| Anchorage     | Installation                  |                |                             |                               |                      | Resistance             | Allowable Loads |                 |
|---------------|-------------------------------|----------------|-----------------------------|-------------------------------|----------------------|------------------------|-----------------|-----------------|
| Class rod 5.8 | Diameter Drill d <sup>o</sup> | Depth hef hole | distance standard CCr edges | distance standard SCr anchors | torque tighten Tinst | resistance feature NRk | Hormigón C20/25 | Hormigón C20/25 |
|               | (mm)                          | (mm)           | (mm)                        | (mm)                          | (N.m)                | Traction (kN)          | Traction (kN)   | Shears (kN)     |
| M8            | 10                            | 80             | 80                          | 160                           | 10                   | 12,9                   | 4,3             | 5,8             |
| M10           | 12                            | 90             | 90                          | 180                           | 20                   | 19,7                   | 6,6             | 9,2             |
| M12           | 14                            | 110            | 110                         | 220                           | 40                   | 32,8                   | 10,9            | 13,4            |
| M16           | 18                            | 125            | 125                         | 250                           | 60                   | 44,6                   | 14,9            | 24,9            |
| M20           | 24                            | 170            | 170                         | 340                           | 100                  | 75,8                   | 25,3            | 39,2            |

Safety factor for voltage load 3.0

## Number of Diameter Anchors

| Anchorage | Installation on hollow supports |         |         |              |         |         | Installing rods in concrete |         |         |
|-----------|---------------------------------|---------|---------|--------------|---------|---------|-----------------------------|---------|---------|
| Dipstick  | Sieve 16/85                     |         |         | Sieve 16/130 |         |         |                             |         |         |
|           | 150 ml.                         | 345 ml. | 380 ml. | 150 ml.      | 345 ml. | 380 ml. | 150 ml.                     | 345 ml. | 380 ml. |
| M8        | 6                               | 13      | 15      | 4            | 9       | 10      | 35/45                       | 80/90   | 90/100  |
| M10       | 6                               | 13      | 15      | 4            | 9       | 10      | 20/25                       | 45/50   | 50/55   |
| M12       | 6                               | 13      | 15      | 4            | 9       | 10      | 12/16                       | 26/30   | 30/34   |
| M16       | -                               | -       | -       | -            | -       | -       | 6/8                         | 14/16   | 16/18   |
| M20       | -                               | -       | -       | -            | -       | -       | 2/3                         | 6/7     | 7/8     |

See application table for values of depth and hole diameters

## Mechanical Features

| Techmofix-1000       | Units                | Norm      | Average |
|----------------------|----------------------|-----------|---------|
| Compressive strength | (N/mm <sup>2</sup> ) | ASTM D695 | 65      |
| compression Module   | (N/mm <sup>2</sup> ) | ASTM D695 | 6000    |

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