



## Product Description

Chemfix PESF - Polyester Styrene Free Low Odour Resin is a high performance, rapid curing two part chemical anchoring system. Applied in one single action this resin will produce a cost effective, strong, chemical resistant fixing.

## Key Features

- For use in Hollow Wall, Brickwork, Masonry & Concrete.
- Economical Fixing Resin.
- Medium Duty Load Applications.
- Non Flammable and Non-Hazardous.
- Ideal as well for Indoor Usage.

## Approvals



INSTYTUT TECHNIKI  
BUDOWLANEJ  
Aprobacie Technicznej  
ITB nr AT-15-6900:2011  
ITB-978/W



Approval nr.  
CAZ 0834/1  
Valid  
2010-2013  
For use with  
hollow &  
masonry

## Available Sizes

380ml / 400ml / 410ml 10:1 Co-axial Cartridge  
825ml 10:1 Side by Side Cartridge  
330ml / 345ml / 350ml 10:1 Side by Side Cartridge  
150ml / 165ml / 280ml / 300ml 10:1 Foil Bag  
380ml / 400ml / 410ml 10:1 Foil Bag

### IMPORTANT NOTE:

Performance based on clean holes; HAMMER DRILLED - blown and then brushed with a stiff metal brush & blown again.

|                             |  |
|-----------------------------|--|
| CE 1488                     |  |
| Chemfix Products Ltd        |  |
| 11                          |  |
|                             |  |
| 1488-CPD-0195/W             |  |
| Chemfix PESF                |  |
| ETA-11/0032                 |  |
| ETAG 029                    |  |
| For Masonry & Hollow Walls  |  |
| European Technical Approval |  |

## Typical Gel and Curing Time\*

\*Figures are based on M12 fixings. Full cure is achieved after 24 hours

| BASE MATERIAL TEMPERATURE (°C) | 35 | 25 | 15 | 5  | -5 | -10** |
|--------------------------------|----|----|----|----|----|-------|
| TYPICAL GEL TIME (mins)        | 3  | 8  | 13 | 21 | 50 | 60    |
| MIN. LOAD TIME (mins)          | 20 | 20 | 20 | 30 | 90 | 180   |

## Typical Performance Data at Standard Embedment Depth

\*\*Resin temperature must be at least 20°C

| Size | Concrete, $f_{ck, cube} = 25N/mm^2$ (C20/25) 5.8 Grade Steel |                    |                        |                    |                       |                     |                                   |                      |                             | SETTING DATA              |                          |                                |                         |
|------|--|--------------------|------------------------|--------------------|-----------------------|---------------------|-----------------------------------|----------------------|-----------------------------|---------------------------|--------------------------|--------------------------------|-------------------------|
|      | Characteristic Resistance (kN)                               |                    | Design Resistance (kN) |                    | Recommended Load (kN) |                     | Characteristic Edge Distance (mm) |                      | Characteristic Spacing (mm) | Hole Diameter In Concrete | Hole Diameter In Fixture | Standard Embedment In Concrete | Recommended Torque (Nm) |
|      | Tension ( $N_{rk}$ )   | Shear ( $V_{rk}$ ) | Tension ( $N_{rd}$ )   | Shear ( $V_{rd}$ ) | Tension ( $N_{rec}$ ) | Shear ( $V_{rec}$ ) | Tension ( $C_{cr,N}$ )            | Shear ( $C_{cr,V}$ ) | (mm)                        | (mm)                      | (mm)                     | Concrete/Brick                 |                         |
| M8   | 20.2   | 9.5                | 8.1                    | 7.6                | 5.8                   | 5.4                 | 80                                | 100                  | 160                         | 10                        | 9                        | 80                             | 11 / 5                  |
| M10  | 28.5   | 15.1               | 11.4                   | 12.1               | 8.1                   | 8.6                 | 90                                | 130                  | 180                         | 12                        | 11                       | 90                             | 22 / 17                 |
| M12  | 40.5   | 21.9               | 16.2                   | 17.5               | 11.6                  | 12.5                | 110                               | 150                  | 220                         | 14                        | 13                       | 110                            | 38 / 28                 |
| M16  | 69.2   | 40.8               | 27.7                   | 32.7               | 19.8                  | 23.3                | 125                               | 170                  | 250                         | 18                        | 17                       | 125                            | 95 / 75                 |
| M20  | 89.9   | 63.7               | 40.7                   | 51.0               | 29.1                  | 36.4                | 170                               | 190                  | 340                         | 24                        | 22                       | 170                            | 170 / -                 |
| M24  | 112.6  | 91.8               | 46.3                   | 73.4               | 33.1                  | 52.4                | 210                               | 240                  | 420                         | 28                        | 26                       | 210                            | 260 / -                 |
| M30  | -  | -                  | -                      | -                  | -                     | -                   | 280                               | 350                  | 560                         | 35                        | 33                       | 280                            | 480 / -                 |

## Typical Ultimate Physical Properties

|                      | N/mm <sup>2</sup> | TEST METHOD               | STORAGE / SHELF LIFE   | IMPORTANT  |
|----------------------|-------------------|---------------------------|--|--|
| COMPRESSIVE STRENGTH | 53.55             | (EN ISO 604) / (ASTM 695) | This product should be stored between +5°C & +25°C.<br><br>The Shelf life of the product is 12 months from the manufacture date. | The information and data given is based on our own experience, research and testing and is believed to be reliable and accurate. However, as Chemfix Products cannot know the varied uses to which its products may be applied, or the methods of application used, no warranty as to the fitness or suitability of its products is given or implied. It is the users responsibility to determine suitability of use. For further information please contact our Technical Department. |
| FLEXURAL STRENGTH    | 24.08             | (EN ISO 178) / (ASTM 795) |  |  |
| FLEXURAL MODULUS     | 2927.67           | "                         |  |  |
| TENSILE STRENGTH     | 12.48             | (EN ISO 527) / (ASTM 638) |  |  |
| E MODULUS            | 9651.33           | "                         |  |  |

