



Product Description

Chemfix Polyester Resin is a high performance, rapid curing two part chemical anchoring system. Applied in one single action this resin will produce a chemical resistant fixing which is cost effective for usage in aerated concrete or hollow wall applications, as well as general purpose.

Key Features

- For use in Hollow Wall, Brickwork, Masonry & Concrete.
- Economical Fixing Resin.
- Medium Duty Load Applications.
- Fast Curing in Normal conditions.

Approvals



INSTYTUT TECHNIKI
BUDOWLANEJ
Aprobacje Technicznej
ITB nr AT-15-6895:2011
ITB-973/W



ASSOCIATION Approval nr.
CAZ 0833/1
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 Foil Bag
380ml / 400ml / 410ml Foil Bag

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

Typical Gel and Curing Time*

| BASE MATERIAL TEMPERATURE (°C) | 35 | 25 | 15 | 5 | -5 | -10** |
|--------------------------------|----|----|----|----|----|-------|
| TYPICAL GEL TIME (mins) | 3 | 7 | 11 | 21 | 50 | 60 |
| MIN. LOAD TIME (mins) | 20 | 20 | 20 | 30 | 90 | 180 |

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

**Resin temperature must be at least 20°C

Typical Performance Data at Standard Embedment Depth

| Size | Concrete, $f_{ck, cube} = 25N/mm^2$ (C20/25) 5.8 Grade Steel | | | | | | | | | SETTING DATA IN SOLID SUBSTRATE | | | | |
|------|--------------------------------------------------------------|--------------------|------------------------|--------------------|-----------------------|---------------------|-----------------------------------|----------------------|-----------------------------|---------------------------------|--------------------------|--------------------------------|-------------------------|----|
| | 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 | 17.2 | 9.5 | 6.9 | 7.6 | 4.9 | 5.4 | 80 | 100 | 160 | 10 | 9 | 80 | 6 | 3 |
| M10 | 26.2 | 15.1 | 10.5 | 12.1 | 7.5 | 8.6 | 90 | 130 | 180 | 12 | 11 | 90 | 17 | 13 |
| M12 | 37.1 | 21.9 | 14.8 | 17.5 | 10.6 | 12.5 | 110 | 150 | 220 | 14 | 13 | 110 | 33 | 24 |
| M16 | 43.1 | 40.8 | 17.2 | 32.7 | 12.3 | 23.3 | 125 | 170 | 250 | 18 | 17 | 125 | 75 | 43 |
| M20 | 69.7 | 63.7 | 27.9 | 51.0 | 19.9 | 36.4 | 170 | 190 | 340 | 24 | 22 | 170 | 120 | - |
| M24 | 95.9 | 91.8 | 38.4 | 73.4 | 27.4 | 52.4 | 210 | 240 | 420 | 28 | 26 | 210 | 198 | - |
| M30 | - | - | - | - | - | - | 280 | 350 | 560 | 35 | 33 | 280 | 480 | - |

Typical Ultimate Physical Properties

| | N/mm ² | TEST METHOD | STORAGE / SHELF LIFE | IMPORTANT |
|----------------------|-------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COMPRESSIVE STRENGTH | 59.58 | (EN ISO 604) / (ASTM 695) | This product should be stored between +5°C & +25°C. Avoid Direct Sunlight 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 | 25.18 | (EN ISO 178) / (ASTM 795) | | |
| FLEXURAL MODULUS | 3486.40 | " | | |
| TENSILE STRENGTH | 13.38 | (EN ISO 527) / (ASTM 638) | | |
| E MODULUS | 8015.40 | " | | |

