

# THOR Polyester Resin

## Where to use

- As a bonding agent.
- Where a waterproof bond is required.
- Where a chemically resistant bond is required.
- Where a vibration – proof bond is required.
- When bonding near to an edge.
- Where a stress free bond is required.

## Applications

Anchoring of machinery. Permanent installation of reinforcement, dowelling and starter bars, foundation bolts, hand rails, safety fences, wall ties, rail tracks, tie – back anchors, etc..

## Advantages

- Excellent adhesion
- Rapid strength gain
- High Strength
- Corrosion resistant
- Resistant to thermal recycling
- Low Temperature cure
- May be used in overhead applications
- Pre packed ready for use



## Product

A high strength, fast curing, thixotropic grout / adhesive. Pre packed in 10:1 ratio cartridges for ease of use.

## Description

A plastic cartridge containing a base resin consisting of polyester resins, a catalyst consisting of an organic peroxide, and inert fillers in a paste form.

## Pack Sizes

380ml Cartridge.

## Introduction

**Thor Polyester Resin** has been specially formulated as a thixotropic, high strength grout for the permanent anchoring of bolts into concrete or brickwork.

It is equally suitable for bonding together most materials found on construction site. (Consult our Technical Department if in doubt)

**Thor Polyester Resin** will, when used correctly, provide a high strength bond, which is waterproof, chemically resistant, vibration proof and stress free.

### Typical Properties

Gel & cure times

Temperature Deg C	Gel Time Minutes	Minimum cure Before loading Hours
5	15	3
10	10	2
20	7	1.5
30	5	1

Typical tensile and shear strengths to B.S. 5080 in 25KN. concrete.

Fixing Diameter	Tensile (KN)	Shear (KN)
M8	19.0	13.5
M10	21.7	16.5
M12	41.0	29.5
M16	75.0	49.0
M20	105.0	72.0

### How to Use

#### Preparation

Holes should be formed, a minimum of 2mm. greater diameter than the bolt to be inserted, using rotary percussive drilling techniques. If it has been necessary to diamond drill the holes, then they should be roughened or under reamed.

Pre-cast holes should have their sides roughened prior to filling. All dust, drilling debris and other contaminants should be removed, bars and bolts should be degreased and all rust removed.

#### Application

Remove the cap and protective insert from the cartridge and screw on the static mixer nozzle. Fit the cartridge into the applicator gun and gradually

apply pressure by activating the trigger until material exudes from the end of the nozzle. Stop pressurising and allow the resin to flow until a uniform colour is achieved.

Insert the nozzle into the base of the hole and activate the trigger, removing the nozzle slowly as the hole fills. Once sufficient resin is in the hole, release the pressure, wipe excess resin from the nozzle and place the stud to be fixed into the hole with a twisting action to ensure full contact between hole side, resin and stud.

Allow the resin to cure fully before loading.

Partly used cartridges are reusable. Remove the mixing nozzle, wipe away surplus resin and replace the nose plug and cap.

### Storage Life

At least twelve months in manufacturers unopened cartridges in sealed containers if stored between 4 & 20 deg. C.

### Approximate Number of Fixings per Cartridge.

Bolt Diam (mm)	Hole Diam (mm)	Hole Depth (mm)	380ml
8	10	80	110
10	12	90	60
12	14	110	40
16	18	125	20
20	22	170	9
24	28	210	5

**ISSUE DATE: JANUARY 2010**



### Wykamol Group

Unit 3 Boran Court, Network 65 Business Park, Hapton, Burnley. BB11 5TH

t: +44 (0)845 400 6666 f: +44 (0)845 400 3333

www.wykamol.com e: sales@wykamol.com