



Triton TRIMOL 36 STRUCTURAL GROUT

Description

Triton TRIMOL 36 is a three component, pourable epoxy resin system for use as a structural grout. The resin is of a light golden colour which is mixed in the ratio of 100 parts by weight (p.b.w) with 20 p.b.w of the hardener - an almost colourless liquid - to provide a base for the addition of the filler component which consists of graded siliceous aggregates. The system is either cold or warm setting to give a structurally discreet back-fill, principally for timber repairs.

Characteristics

Triton TRIMOL 36 mixtures are, by reason of site control over filler concentration, capable of being used to provide a pourable grout or back-fill for a wide range of temperatures. The cured product creeps sufficiently under loading to accommodate movement in complex timber joints.

Uses

Triton TRIMOL 36 structural grout is a versatile product for site repairs to rotten, insect or fire damaged timbers to re-make joints, breaks or shakes; the system is recommended for use with Triton TRIMOL 50 epoxy glass pultruded rods where their strength, corrosion resistance and compatibility with the epoxy grout makes them superior to mild or stainless steel reinforcement.

Trimol System

Product	Appearance	Density at 25°C
Trimol 36 Resin	Clear, pale golden colour liquid	1.14 mg/mm ³
Trimol 36 Hardener	Clear, colourless liquid	1.01 mg/mm ³

Pretreatment

Contaminated surfaces can inhibit both subsequent bonding and appearance. Remove any loose surface deposits or rotten timber: visible surfaces may be left natural or cut off to leave a clean interface between timber and synthetic repair. Prop where necessary. Shutter the repair area using melamine faced chipboard e.g. contiboard; render the pre-waxed shuttered box leakproof with the aid of one component silicone sealant and allow this to cure.

Where the pour is to be into masonry make a good seal by utilising a compatible product e.g Triton TRIMOL 54 epoxy wood, which may be used as a putty. Lay Triton TRIMOL 50 rods across any gap between either rotten timber or from timber to masonry, always ensuring that the rods are seated into good timber.

Product	Parts by weight
Trimol 36 Resin	100
Trimol 36 Hardener	20

Mixing

- Pour resin and hardener into the pail supplied and mix thoroughly with a palette knife or similar until a clear, non-striated mix is achieved.
- Add filler slowly until a pourable viscosity is reached.



Usable life

The following times hold for 20°C. In bulk an 8 Kg mix is usable for about thirty minutes. Breaking down to smaller quantities of mix will help extend the life to about forty-five minutes. The usable life at higher temperatures will be shortened.

Application

To avoid excessive build-up of exothermic heat the mixed system is poured to a depth of 50mm when working at 20°C - less at higher temperatures. Allow the system to gel before continuing in 50mm layers until completion of the fill. Strike shuttering after 12 hours at 20°C.

Curing

After 3 days at 20°C any propping may be removed: any loading may now be imposed.

Working temperature

The usable life and other published times hold for R.T.,(20°C) they will be shortened by higher temperatures.

Storage

The separate components, stored at 5°C. to 25°C in dry conditions, have shelf life of 2 years.

Cleaning Equipment

Clean before the mixture has hardened with **Triton RESIN CLEANER**

Physical Properties

STRUCTURAL GROUT		
Usable Life of 5kg	At 20°C	30 min
	At 5°C	90 min
Gel time	At 20°C	8 hours
	At 5°C	36 hours
Specific Gravity	At 20°C	1.8

Mechanical properties after curing 21 days 20°C

Test temperature: 20°C



CRACK INJECTION SYSTEM - FILLED		
Tensile strength ISO/R.527	MPa	30
Tensile modulus ISO/R.527	Gpa	-
Elongation at break ISO/R.527	%	1
Flexural strength* ISO 178	MPa	40
Flexural modulus ISO 178	Gpa	-
Compressive strength* ISO 604	MPa	110
Coefficient of expansion ASTM D696	Linear/°C	-

Health & Safety

For full information consult the relevant Material Safety Data Sheet.

For further information please contact:

Triton Chemical Manufacturing Co Ltd T/a Triton Systems

Units 3 – 5 Crayford Commercial Centre, Greyhound Way, Crayford, Kent DA1 4HF

Tel: 01322 318830

Fax: 01322 524017

Email: info@tritonsystems.co.uk

www.tritonsystems.co.uk