



# TRIMOL 36 STRUCTURAL GROUT

**DESCRIPTION.** 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.** 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.** 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 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 <sup>3</sup>
TRIMOL 36 HARDENER	Clear, colourless liquid	1.01 mg/mm <sup>3</sup>

## INSTRUCTIONS FOR USE

**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 TRIMOL 54 epoxy wood, which may be used as a putty. Lay 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 TRIMOL 57.

### **PHYSICAL PROPERTIES.**

#### **STRUCTURAL GROUT**

Usable Life of 5 Kg	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 at 20°C.

Test temperature: 20°C.

#### **STRUCTURAL GROUT**

Tensile strength ISO/R.527	MPa	19.7
Tensile modulus ISO/R.527	Gpa	6.6
Elongation at break ISO/R.527	%	0.7
Flexural strength* ISO 178	MPa	35.7
Flexural modulus ISO 178	Gpa	7.7
Compressive strength* ISO 604	MPa	65.9
Coefficient of expansion ASTM D696	Linear/°C	44.2x10 <sup>-16</sup>

- Tested to BS 6319. Systems are anticipated to give values 10 to 15% higher than the quoted figures.

**CAUTION.** TRIMOL 36 Resin and hardener are generally harmless providing that the normal common-sense precautions taken when handling chemicals are observed. For instance neither the separate components nor the uncured mixture should also be taken to prevent contact with the skin: wearing rubber or plastic gloves will normally suffice along with eye protection. Thoroughly cleanse the skin at the end of each working period by washing with soap and water. Disposable paper towels are recommended to dry the skin. Precautions are fully discussed in Product Safety Information sheet for TRIMOL 36 Resin and Hardener which is available on request.

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