

**PRODUCT NAME**  
**ROTAFIX TG6 TIMBER GROUT**  
3480 2.5LT PACK - 3482 7.5LT PACK

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**Product Description**

Rotafix TG6 Timber Grout is a three-component pourable epoxy grout specifically designed for timber engineering work. Manufactured from a combination of high strength epoxy resins and a blend of carefully selected lightweight fillers. After mixing it provides a free flowing, self levelling structural timber grout.

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**Uses**

TG6 Timber Grout can be used for:

- Structural grouting of voids and cavities in all types of timber.
- Grouting in metal plates to form modified flitch repairs in timber sections
- Grouting in steel bars when the Rotafix timber upgrade is to be used
- Fill pre-cut top slots in all Rotafix Timber Resin Splice (TRS) units.

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**Characteristics/Advantages**

- Easy to mix, apply and use.
- High early strength.
- Shrinkage free.
- Good flow characteristics
- Good chemical resistance - unaffected by most timber treatment chemicals (once cured).

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**Tests**

Approval/Standards     FireTesting according to BS 476 Part 21

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**Product Data**

Appearance/Colours:

Base Part = Clear / Hardener Part = Clear / Filler Part = Dark Grey/Black

Dark Grey/Black colour when mixed.

**Under direct sun radiation there may be some discolouration and colour deviation (on some colours)This has no influence on the function and performance of the grout**

Packaging:

Supplied in 2.5 litre (4.5kg) (Components = 1 x Base, 1 x Hardener & 1 x Filler) also supplied in 7.5 litre (12.5kg) (Components = 3 x Base 3 x Hardener & 3 x Fillers).

Storage conditions/Shelf Life:

24 months in unopened, original containers when stored off cold floors and in dry conditions between +5°C and +25°C.

## Technical Data

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Density: 1.65 kg/litre approx.

Service Temperature: Please make sure the TG6 Timber Grout is kept at an ambient temperature of between 10-15°C before the product is mixed. If the product is mixed at below 10°C the cure time and flowing properties will be greatly reduced.

Also please note that in hot conditions (+30°C) the TG6 Timber Grout will cure much quicker (see pot life table)

Application temp: +5°C to + 30°C (contact our Technical Department if out of this Range)

Application thickness: minimum 6mm around bar or plate when using as a void filler TG6 Timber Grout can be cast to fill all timber beam / joist section sizes. The maximum volume of material to be poured in one continuous application should be no more than 50lts in relation to material exotherm and ambient temperatures. (Contact our Technical Department for more information).

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## Mechanical/Physical Properties

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Compressive Strength

Cure time	+ 20°C
7 days	30-40 N/mm <sup>2</sup>
14 days	40-50 N/mm <sup>2</sup>

<b>Flexural Strength</b>	32MPa approx	32MPa approx	
<b>Tensile Strength</b>	17MPa approx	17MPa approx	
<b>Modulus Elasticity (MoE)</b>	8-9KN/mm <sup>2</sup>		
<b>Bond Strength</b>	Softwood timber 3-4N/mm <sup>2</sup> approx.	Hardwood timber 3-6N/mm <sup>2</sup> approx.	Sandblasted Steel 4-5-N/mm <sup>2</sup> approx.

Pot life – 2.5lt	Minutes	Cure schedule
10 ° C	90	5-7 days
20°C	50	3-4 days
30 ° C	30	2-3 days

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## System Information

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Application Details:

All surfaces must be clean, dry and free from any loosely adhering particles or contaminants such as freshly applied timber treatments, dirt, oil, dust, grease, etc.

Steel surfaces must have all paints, films, oils, rust and other contaminants removed by grit blasting.

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## Application Instructions

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Mixing/Time:

Add the entire contents of Hardener Part to the Base Part. Thoroughly mix using a small mixing paddle attached to a low speed electric drill (max. 500 rpm) for at least one minute.

The Filler Pack can then be added slowly, while mixing continues, until a uniformly mixed, lump free, pourable grout is achieved.

Part batching of TG6 TIMBER GROUT is not recommended unless strict measurement of the components, in accordance with the mix ratio of the factory proportioned pack, is observed and adhered to.

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#### Consumption/Dosage:

The volumes are as stated on the packs.

As a guide a 2.5lt pack of mixed TG6 Timber grout will fill a void of 100mm wide x 100mm deep by 250mm long or fill a slot 25mm wide x 100mm deep x 1.0m long.

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#### Application method/Tools:

Pour TG6 Timber Grout into the prepared void or water tight formwork and allow to self level.

When grouting into pre-cut slots, ensure there is adequate head/pressure to maintain flow. This is essential to ensure that no air is entrapped.

Pour the grout continuously until the grout rises above the level of the bars or plate.

When grouting bars, holding down bolts, etc. pour TG6 Timber Grout into the base of the hole then drop in the bar. A slight overflow should occur at the top when the bar is inserted.

Clean all tools and equipment immediately.

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#### Cleaning of Tools:

Clean all tools and equipment immediately after use. Most solvent thinners would work. It is recommended that protective gloves, goggles and clothing be worn during application.

Cured TG6 Timber Grout can only be removed mechanically.

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### **Health and Safety & Legal Information**

TG6 Timber Grout® is a Registered Trade Mark of Rotafix (Northern) Ltd

The requirements for a Rotafix product(s) may be specific for an individual project. Advice given by Rotafix can only be considered as part of the contract if it is provided in writing.

NOTICE TO ROTAFIX ORIGINAL PURCHASE CUSTOMER: PLEASE ENSURE ALL POTENTIAL USERS OF THIS PRODUCT ARE AWARE OF THE MATERIAL SAFETY DATA SHEET (MSDS) PRIOR TO THE PRODUCTS USE. KEEP THE MSDS IN A SAFE PLACE READILY LOCATABLE IN CASE OF FUTURE USE. READ THE MSDS IN CONJUNCTION WITH ANY LABEL AND DIRECTIONS FOR USE ON THE PRODUCT CONTAINER. DESTROY ALL OBSOLETE COPIES RELATING TO THIS PRODUCT. THE MSDS RELATES ONLY TO THE PRODUCT SPECIFIED. COPIES OF THIS DOCUMENT ARE AVAILABLE ON REQUEST.

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**ROTAFIX LTD, ROTAFIX HOUSE, ABERCRAF, SWANSEA SA9 1UR. U.K.**

**TEL: +44 (0)1639 730481 FAX: +44 (0)1639 730858 e-mail: sales@rotafix.co.uk**

**Website: www.rotafix.co.uk**

**SOUTHERN AREA CONTACT: TEL: +44 (0)1442 243169 FAX: +44 (0)1442 234901**