



*The Glue People*

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# Tradeweld GP

**Two part epoxy resin adhesive.**

## General Description

Tradeweld GP is a two-part epoxy resin adhesive for use in the construction industry. It has outstanding physical strength, durability and performance. This product will permanently bond concrete, stone, brick, glass, slate, metal, timber and some plastics. It has excellent chemical resistance offering resistance to a wide range of chemicals used commonly in the construction industry.

## Common Uses

- As a general purpose adhesive.
- Ideally suited for bonding timber fixings to walls and floors which have been previously waterproofed, thereby avoiding puncturing the waterproof membrane.
- Bonding coping stones to concrete.
- Bedding kerbs to concrete.
- "Cats eye" placement.
- Bonding aluminium support legs to concrete when installing suspended flooring.
- As a potting compound or grout filler for encapsulation of electrical components.

## Application

### Preparation

Surfaces must be clean and free from dust, grease, flaking material or other contaminants liable to impair adhesion. Thorough cleaning is imperative and for best results a cleaning solvent should be used. All metal surfaces must be degreased thoroughly a cleaning solvent. No priming is necessary; however on particularly porous concretes Epoxy Sealer should be applied.

### Hand Mixing

Empty the entire contents of pack B 'Hardener' into the pack A 'Resin' container and mix thoroughly; but quickly over a period of 2 – 3 minutes, ensuring that you reach the bottom and sides of the container when mixing. Once mixing is complete wash hands thoroughly using plenty of soap and water (see material safety data sheet). Apply immediately after mixing and use all mixed material within 5 minutes.

### Machine Mixing

Empty the entire contents of pack B 'Hardener' into the pack A 'Resin' container. Use an electric drill and paddle attachment. Continue mixing until a uniform colour is achieved. Normal mixing time is approximately 1 minute. Ensure the container is mixed at the bottom and at the sides. Apply immediately after mixing and use all mixed material within 5 minutes.

### Application

Immediately after mixing, apply the material by trowel or knife to one surface only and immediately offer up the other surface to it, if necessary support the substrates until the material is set (normally 5 – 10 minutes depending on the thickness of the material). Lower temperatures take longer to cure. For use as a potting compound or grout simply pour the mixed material directly from the container.

### Tool Cleaning

Clean all tools, etc. using cleaning solvent. Do not allow the mixed material to set hard on tools. Do not use cleaning solvents to clean skin.

**Health & Safety**

As some people find epoxy based products irritating to the skin, all users are recommended to use a barrier cream and protective clothing. Thoroughly wash hands with soap and water after use and maintain good industrial hygiene. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.

**Physical Data**

<b>Base</b>	Epoxy resin.
<b>Colour</b>	Black.
<b>Viscosity</b>	Resin            275 poise @ 25°C Hardener       15 poise @ 25°C
<b>Pot life</b>	5 minutes @ 20°C.
<b>Curing time</b>	Hard cure within 1 – 2 hours depending upon temperature. Full cure with 24 hours.
<b>Shelf life</b>	12 months in unopened containers.
<b>Strengths</b>	Compressive    71 MPa Tensile strength 52 MPa Flexural strength 64 MPa Hardness        74 (Shore D)
<b>Bond strength to concrete</b>	Far exceeds the cohesive strength of concrete.
<b>Bond strength to steel</b>	Mild steel to mild steel – Cured for 3 days @ 20°C – 134 Kg / cm <sup>2</sup>
<b>Packaging</b>	Two components, Combined volume of 1 litre or 4 litres.

**General**

**For safe handling information on this product, consult the material safety data sheets, (MSDS).**

**Storage**

**\*\*\*PROTECT FROM FROST\*\*\*** Products shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8° to 28°C (46° to 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container. For specific shelf-life information, contact Trade Grade Products at the above address.

**Data Ranges**

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

**Important Notice**

Data contained in this document is for information only and is believed to be reliable. Trade Grade Products Ltd (TGP) cannot assume responsibility for results obtained by others over whose methods we have no control.

It is the user's responsibility to determine suitability of the product for any specific purpose and TGP is pleased to provide a sample upon request.

Before using this product ensure that you have been supplied with and have read carefully the following information.

- The hazard label (complying with latest CDG/CPL regulations) applied to the container.
- Material Safety Data Sheets, Tradeweld GP Part A and Part B.