

NIGHTINGALE SUPPLY

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TECHNICAL DATA SHEET

EPOXY RESIN - TECHNIGLUE CA

GRASP ER60

TECHNIGLUE CA is a two component solvent free epoxy adhesive formulated to cure at room temperature to produce high strength waterproof bonds.

The **TECHNIGLUE CA** adhesive is particularly suitable for bonding structural elements fabricated from concrete, timber and metal (ferrous and non-ferrous).

Three **TECHNIGLUE CA** hardeners are available with different curing rates. This enables the working time to be adjusted according to the job size and working temperature.

PROPERTIES OF TECHNIGLUE CA

Uncured Properties:

Physical State of Resin	White thixotropic gel
Physical State of Hardeners	Amber thixotropic gel
Resin Viscosity @ 25°C	250,000 – 350,000 mPa
Hardener – Fast Viscosity @ 25°C	150,000 - 250,000 mPa
Hardener – Slow Viscosity @ 25°	15 ,000 – 250,000 MpA
Resin Specific Gravity @ 25°C	1.06
Hardeners Specific Gravity @ 25° C	0.998
Resin Flash Point	250°C
Hardener Flash Point	172°C
Shelf Life:	2 years

CURE CHARACTERISTICS

TECHNIGLUE CA HARDENER - FAST

Pot Life (@ 25°C - 100 grams)	12 minutes
Cure Schedule @ 25°C	8 hours

TECHNIGLUE CA HARDENER - SLOW

Pot Life (@ 25°C - 100 grams)	30 minutes
Cure Schedule @ 25°C	12 hours

CURED PROPERTIES OF TECHNIGLUE CA

PROPERTY	VALUE	
Tensile Strength	25-30 Mpa	3.6-4.4 ksi
Tensile Bond Strength	10-12 Mpa	1.5-1.7 ksi
Compressive Strength	60-80 Mpa	8.7-11.6 ksi
Flexural Strength	20-25 Mpa	2.9-3.6 ksi

RECOMMENDED MIXTURES:

1 part **TECHNIGLUE CA HARDENER** to 2 parts **TECHNIGLUE CA RESIN** (BY VOLUME).

NOTE: Great care should be taken when dispensing and mixing. Do not alter the above ratios.

It is easier to judge the proportions by placing three equal quantities side by side. (two of resin and one of hardener.) Take care to assure that the components are thoroughly mixed to uniform colour before applying.

PREPARATION:

Before mixing **TECHNIGLUE CA**, concrete surfaces should be wire brushed to remove laitance; wood and metal surfaces should be abraded to provide a good key; all surfaces should then be cleaned to remove any oil and dust contamination.

APPLICATION:

Sufficient **TECHNIGLUE CA** should be applied (to one or both of the surfaces) to assure intimate contact between the bonding surfaces. Excessive clamping pressures should be avoided. **TECHNIGLUE CA** requires only sufficient pressure to stop the bonded components from moving during the curing process.

Depending on porosity an surface roughness, one litre of mixed **TECHNIGLUE CA** will cover approximately three (3) square metres.

CLEAN UP:

Equipment contaminated with uncured **TECHNIGLUE CA** epoxy can be cleaned up with warm water.

PACKAGING:

This product is available in the following pack sizes:

750 ml pack	500 ml resin 250 ml hardener - fast
1.5 Litre pack	1 Litre resin 500 ml hardener - fast
6 Litre pack	4 Litre resin 2 Litre hardener - fast or slow
30 Litre pack	20 Litre resin 10 Litre hardener - fast / slow / super slow

HEALTH & SAFETY:

Avoid contact with the skin and eyes by wearing protective gloves, clothing and eye wear when dispensing, mixing and using.

- If skin contact occurs, remove contaminated clothing and wash skin with warm water.
- If eye contact occurs, hold eyes open and flood with water for at least 15 minutes and seek medical advice.
- If swallowed, DO NOT induce vomiting, give plenty of milk and contact a Doctor or the Poisons Information Centre.

The data in this Data sheet has been compiled from our supplier's Data sheet. This data relates only to the designated product and not to the use of said product in combination with other materials. Because conditions and circumstances of use of the product are beyond our control and any summary of data such as is Nightingale Supply makes no warranty about the accuracy of the data herein and assume no liability for the use of such data. Responsibility for proper precautions and safe use of the product lies with the user.