

| Code | Description | Size | Colour |
|-------|--|------|--------|
| 00178 | Gorilla Super Glue Power Liquid | 10gr | Clear |
| 01300 | Gorilla Super Glue Power Liquid Tube | 3gr | Clear |
| 01303 | Gorilla Super Glue Power Liquid Tube 2pk | 3gr | Clear |

1. Description

Gorilla Super Glue Power Liquid is a high strength, top fast setting adhesive with good flow ability, which can be used for virtually any type of fastening job. It has become a unique product featuring the fastest setting ability in the realm of Cyanoacrylate Adhesive. Gorilla Super Glue Power Liquid is specially designed for bonding and repairing of wooden furniture. When a thin layer of Gorilla Super Glue Power Liquid applied between two surfaces comes into contact with atmospheric moisture, a rapid polymerization occurs producing the ultimate bond.

2. Characteristics

- High strength
- Top fast setting adhesive
- One component
- Solvent-free
- Does not require use of catalyst, heat or clamps

3. Technical Data

| | |
|----------------------------------|---------------------|
| Base: | Ethyl Cyanoacrylate |
| Colour: | Clear |
| Specific Gravity (20 °C): | 1.10 |
| Refractive Index (n20D): | 1.439 |
| Flash Point (°C): | See MSDS |
| Vapour Pressure (hPa): | < 1 |
| Viscosity (cP) , 25°C: | 75 – 125 |

4. Applications

- Ceramics/Tiles
- Hardwood
- Laminated plastics
- Metals
- Paper
- Foam plastics
- Some PVC
- Other non-porous surfaces

5. Packaging

00178 – 10gr
 01300 – 3gr
 01303 – 3gr

6. Shelf Life

12 months (2°C – 8°C)

7. Application Instructions

Method:

- Make sure the surfaces to be bonded are clean and dry (preferable to solvent-wipe plastics, glass, and rubber, and to acid-treat metals).
- Dispense a drop or drops to one surface only. Apply only enough to leave a thin film after compression.
- Press parts together and hold firmly for a few seconds. Good contact is essential. An adequate bond develops in less than one minute. (Maximum strength is achieved in 24 to 48 hours).
- Wipe off excess adhesive from the top of the container and recap Gorilla Super Glue Power Liquid if left uncapped, may deteriorate by contamination from moisture in the air.
- Because Gorilla Super Glue Power Liquid condenses by polymerization, sometimes whitening will occur on the surface of the container or the bonded materials. Should this happen, wipe surfaces well with acetone.

Curing Performance

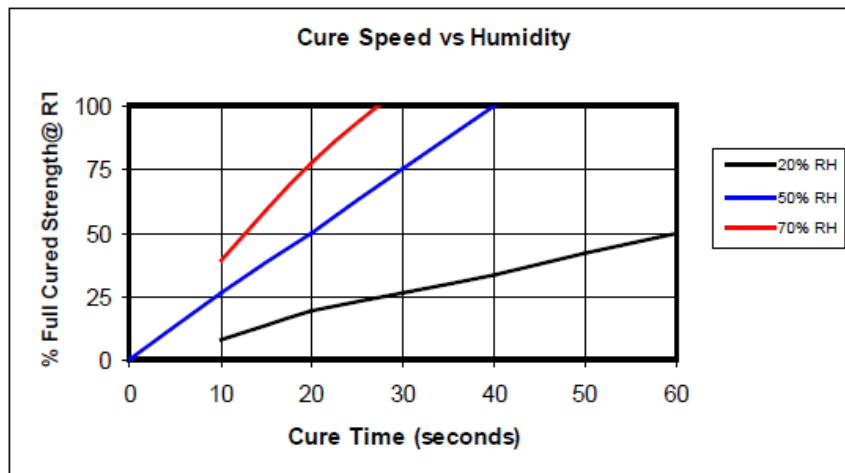
There are many factors that can influence the rate of cure. These include: the types of substrate used, the condition of the surface to be bonded, the smoothness of the surface, the closeness of the surfaces, the atmospheric conditions etc.

Cure Speed/Substrate

| | |
|-----------------|---------------|
| Steel to Steel | 10–30 seconds |
| Stainless Steel | 30–60 seconds |
| Aluminium | 5–15 seconds |
| Zinc plated | 30–90 seconds |
| ABS to ABS | 3–5 seconds |
| ABS to NBR | 3–5 seconds |
| ABS to Wood | 5–10 seconds |
| NBR to NBR | 3–5 seconds |
| Wood | 20–30 seconds |
| Polycarbonate | 20–60 seconds |

Cure Speed / Humidity

The following graph shows the tensile strength developed at different levels of humidity.



Cure Speed / Bond Gap

The rate of cure depends on the bond-gap. A smaller bond-gap results in faster the cure speed.

Typical Properties of Cured Material

| | |
|---|------------------------|
| Physical Properties | |
| Colour | Clear |
| Coefficient of Thermal Expansion (K-1) | 100 x 10 ⁻⁶ |
| Coefficient of Thermal Conductivity (W/m.K) | 0.10 |
| Softening Point | 165°C |
| Working Temperature | -50°C ~ 80°C |
| Electrical Properties | |
| Volume Resistivity (Ω.cm) | 1 x 10 ¹⁶ |
| Surface Resistivity (Ω) | 1 x 10 ¹⁶ |
| Dielectric Constant @ 10 kHz | 2.75 |
| Dielectric Dissipation Factor @ 10 kHz | < 0.02 |
| Dielectric Breakdown Strength (kV/mm) | 25 |

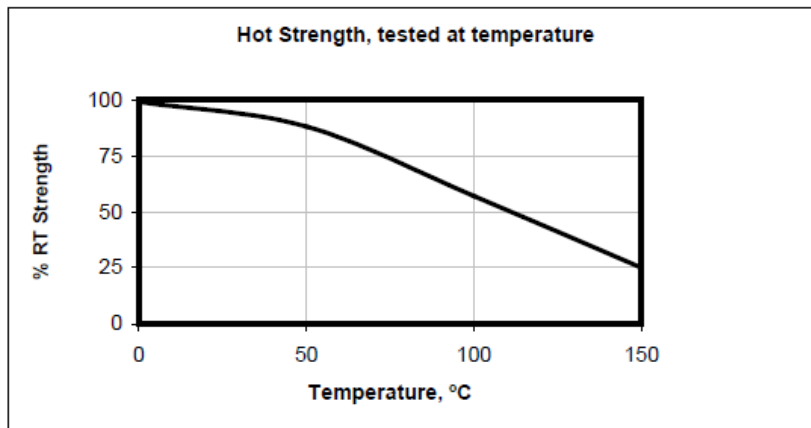
Adhesive Performance

After 24 hours at 25°C

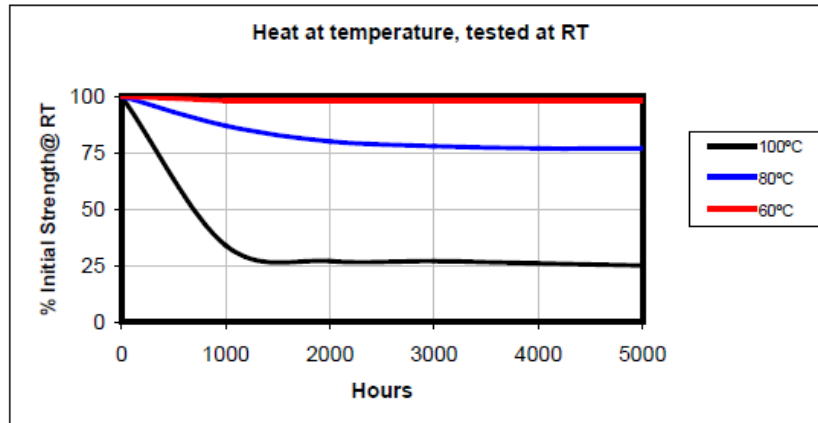
| Tensile Strength | Kg/ cm ² |
|------------------|------------------------------|
| Steel | 190 – 210 Kg/cm ² |
| Stainless Steel | 250 – 450 Kg/cm ² |
| Aluminum | 170 – 190 Kg/cm ² |
| Copper | 150 – 170 Kg/cm ² |
| PVC | 40 – 60 Kg/cm ² |
| ABS | 50 – 70 Kg/cm ² |
| Polycarbonate | 80 – 120 Kg/cm ² |
| Polystyrene | 30 – 45 Kg/cm ² |
| NBR | 5 – 9 Kg/cm ² |
| SBR | 5 – 10 Kg/cm ² |

Typical Environmental Resistance

Hot Strength:



Heat Aging:



Handling and Storage

Storage: Keep products in the unopened container in a cool and dry location. Best when stored at 2 to 8°C. Temperatures less than 2°C can adversely affect product properties. Do Not Freeze. Keep container tightly closed until ready for use.

Handling: Material removed from containers may be contaminated during use. Do not pour back any product to the original container. Misuse of product will void all warranties.

Precaution

- Use with proper ventilation. Avoid contact with skin and eyes.
- Note that the product reacts with natural fibres to produce a lot of heat when curing and this may create a burning effect.
- and may create a heated If contact with skin occurs, rinse with warm water or dissolve gradually with solvent such as acetone, or nitromethane. Do not try to remove forcibly.
- If adhesive gets into eye, keep eye open and rinse thoroughly. Seek medical attention immediately.
- Keep well out of reach of children.
- Keep adhesive in a cool, dry place 20-25°C (68-77oF). For long-term storage, refrigeration (2oC or 35oF) is recommended.

8. Health and Safety Recommendation

- Apply the usual industrial hygiene.
- Wear gloves and safety goggles.

Remark

*The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email sales@soudal.co.nz.***

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