

SOGUT® SOCKETING RESIN

**Cold-Pour Structural Resin System
for Wire Rope Terminations**

For Marine & Civil Infrastructure Applications

PRODUCT OVERVIEW

SoGut® Socketing Wire Rope Resin is a two-component, cold-pour structural resin system for steel wire rope socket terminations.

Designed for cold-pour installation in marine and civil infrastructure applications.

SYSTEM CONFIGURATION

Component A — Liquid Resin

Component B — Powder Filler / Hardener

Supplied as matched two-component kits for controlled field mixing.

INTENDED APPLICATION

For structural wire rope terminations requiring load transfer within socket cavities under static or quasi-static service conditions.

Applicable to:

- Marine mooring systems
- Bridge cable anchorage
- Structural tension members
- Heavy civil infrastructure

Permanent bridge structural applications are subject to project specification and qualification testing.

See SDS for hazards / handling

PROCESSING & CURE (REFERENCE)

Recommended Application Conditions

SOGUT® Socketing Resin is a two-component system. Curing behavior is temperature-dependent. The values below are typical reference values and may vary with temperature, mix mass, heat dissipation/ventilation, substrate temperature, and jobsite conditions.

Recommended Application Conditions

- Recommended ambient application temperature: 10–30°C (50–86°F).
- Low-temperature application (below 9°C(48°F)): Use the recommended accelerator pack and/or pre-condition the resin kit, socket, and wire rope at room temperature for ≥ 6 hours prior to installation.

Typical Gel Time and Minimum Conditioning Time (Reference)

Ambient Temperature	Gel Time (min)	Minimum Conditioning Time (h)*
-5 to 10°C (23 to 50°F)	20–40	6
10 to 25°C (50 to 77°F)	10–30	2
25 to 40°C (77 to 104°F)	5–20	1

Critical Notes / Jobsite Controls

- After pouring, keep the termination vertical and undisturbed for 10–20 minutes (temperature-dependent). Do not move, rotate, or load the termination during this period.
- Do not apply external heating to accelerate curing. Improper heating can adversely affect cure behavior and performance.
- For low-temperature environments, ensure proper conditioning of components and assembly and follow the recommended low-temperature measures noted above.

MECHANICAL PERFORMANCE

Mechanical Properties (23°C, 50% RH, typical values)

Unless otherwise specified, specimens were conditioned for 24 h at 23°C ±2°C and 50% RH ±5% prior to testing.

Property	SI Value	US Value (approx.)	Test Method
Density	1.86 g/cm ³	116.1 lb/ft ³	GB/T 1033
Tensile Strength	21.6 MPa	3.13 ksi	GB/T 2567
Tensile Modulus	10.7 GPa	1.55 Msi	GB/T 2567
Flexural Strength	60 MPa	8.70 ksi	GB/T 2567
Flexural Modulus	10.0 GPa	1.45 Msi	GB/T 2567
Compressive Strength	128 MPa	18.6 ksi	GB/T 2567
Tensile Lap-Shear Strength	16.8 MPa	2.44 ksi	GB/T 7124

Load Test Observation

Wire rope failure observed; termination remained intact. Ultimate breaking force met/exceeded the referenced standard minimum. Tested diameters: 12 mm, 45 mm. Detailed test conditions/report available upon request.

Test Verification

Tested by a CNAS-accredited laboratory in accordance with the standards listed above. Full reports available upon request.

INSTALLATION PROCEDURE

Installation shall follow standard wire rope socket preparation procedures, including brooming, cleaning, and moisture control.

Installation Conditions

- Ensure socket cavity is clean and dry.
- Follow Processing & Cure requirements for ambient temperature limits, gel/cure timing, and heating restrictions.

Installation Sequence

1. Prepare broomed wire rope termination.
2. Position within socket cavity.
3. Mix Components A and B at specified ratio.
4. Pour into socket ensuring full encapsulation.
5. Maintain alignment during ambient cure.

Detailed installation procedures available upon request.

PACKAGING CONFIGURATION

Components supplied in matched ratio kits for single-use socket installation (Component A + B).

Standard kit volumes:

- 500 mL
- 1,000 mL
- 2,000 mL
- 3,000 mL

Custom packaging configurations available upon request.
Performance values are typical laboratory results and are not intended as design guarantees.

MANUFACTURER & CONTACT

Manufactured by

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DOCUMENT CONTROL

Technical Data Sheet

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