

Clear Casting System

Clear, Low Viscosity Liquid Epoxy Resin for Casting, Potting, and Embedding

Product Overview

CCR is a water-clear, UV stabilized, low-viscosity epoxy system designed specifically for casting, potting, and embedding applications. Low color and low viscosity allow for bubble-free, crystal clear casting ideal for art and hobby applications.

The system features two hardener speeds: slow (CCS) for high build casting resin applications and fast (CCF) for quick, small project fast casting resin applications such as resin jewelry and more. CCR is a USDA Certified BioPreferred® Product with 30% biobased content.

CCF
FAST

CCS
SLOW

MECHANICAL DATA

| | FAST | SLOW |
|---|-----------------------|-----------------------|
| Tensile Modulus (ASTM D638) | 448,000 psi (3.1 GPa) | 440,850 psi (3.0 GPa) |
| Tensile Strength (ASTM D638) | 8,140 psi (56.1 MPa) | 7,910 psi (54.5 MPa) |
| Elongation (ASTM D638) | 6% | 6.5 |
| Flexural Modulus (ASTM D790) | 390,000 psi (2.7 GPa) | 409,670 psi (2.8 GPa) |
| Flexural Strength (ASTM D790) | 11,850 psi (81.7 MPa) | 11,100 psi (76.5 MPa) |
| Compression Strength (ASTM D695) | 12,380 psi (85.4 MPa) | 10,860 psi (74.9 MPa) |
| Tg Ultimate (DSC, midpoint) | 123°F/51°C | 127°F/52°C |
| Hardness (Shore D) | 70-80 | 70-80 |

PROCESSING DATA

| | FAST | SLOW |
|---|--|--|
| Mix Ratio (by volume) | 2:1 | 2:1 |
| Mix Ratio (by weight) | 100:43 | 100:42 |
| Viscosity (A/B/Mixed @ 77°F/25°C) | 2160/30/370 | 2160/15/270 |
| Component Density (specific density @ 77°F/25°C) | 1.13 (resin), 0.98 (hardener) | 1.13 (resin), 0.95 (hardener) |
| Mixed Density (specific density @ 77°F/25°C) | 1.08 | 1.07 |
| Pot Life (@ 77°F/25°C) | 90 min | 360 min |
| Tack Free Time (@ 95°F/35°C) | 24 hrs | 72 hrs |
| Recommended Full Cure | 7 days @ 77°F/25°C, Post cure recommended | 7 days @ 77°F/25°C, Post cure recommended |

ENVIRONMENTAL DATA

| | FAST | SLOW |
|---|------------------------|------------------------|
| VOC Content (ASTM D2369) | 0.08 lbs/gal (9.2 g/L) | 0.07 lbs/gal (8.0 g/L) |
| Mixed Biobased Carbon Content (ASTM D6866) | 20% | 20% |

This technical information is provided in good faith and is based on the best knowledge of Gougeon Brothers, Inc. We cannot guarantee this data because conditions of product use are beyond our control.

TDS revised May 2020. © Gougeon Brothers, Inc. 2020