



SUPERIOR QUALITY

COMPETITIVE PRICING

EXCELLENT CUSTOMER SERVICE

Technical Data Sheet

GS100C & GS100P

General Service Universal Epoxy

Highlights:

- 100% solids
- No solvents, no odor
- Self-priming
- Compatible with CSI Epoxy or Universal Pigment Packs
- Available in fast cure versions
- Universal epoxy suitable for various applications
- Cost-effective
- For residential, commercial, and industrial use

Limitations:

- For interior use only
- Do not apply when temperature and humidity are within 5 degrees of each other (condensation will occur)
- Do not apply on concrete with relative humidity (RH) in excess of 75% or more than 3 lbs MVT in 24 hours (ASTM 1869)
- Do not apply on damp concrete
- Low temperatures will increase cure time, viscosity, pot life, and working time
- High temperatures will decrease cure time, viscosity, pot life, and working time

Uses

- Residential/Commercial, Industrial
- Flake and pigmented coatings
- All applications requiring Epoxy coatings with moisture vapor transmission levels below 3 lbs.

Packaging

- 3 Gallon kit
- 15 Gallon kit

Material Properties

Mixed VOC Content: 0g/L
Mix Ratio (by volume): 2:1
Tack Free Time: 6-8 hours
Recoat Time (min/max): 8hrs./24hrs
Light Foot Traffic: 24 hours
Vehicular Traffic: 96 hours
ASTM D-570 Water Absorption (24 hrs.): <0.5%
ASTM D-635 Flammability: Self-Extinguishing

ASTM D-638 Tensile Strength psi: 4,500–5,200psi
ASTM D-638 Tensile Elongation %: 4%-6%
ASTM D-695 Compressive Strength
@ 24Hrs: 7,500
@ 7 Days: 9,800
ASTM C-722 Monolithic Surfacing: Pass
ASTM D-2794 Impact Resistance: Pass
ASTM D 4060 Abrasion Resistance (CS-17): 36mg
ASTM Shore D, D-2240: 80

Description: CSI GS100C & 100P is a 100% solids general-use epoxy specially formulated to serve as a low-cost primer, binder, and topcoat. This versatile epoxy is designed for patching concrete, filling cracks, holes and divots, as well as creating coatings, slurries, and mortar systems. With a viscosity of 1,200 CPS, this epoxy resin is ideal for pigmented coatings, flake floors, color quartz, and epoxy mortar applications. It serves as a binder resin for all garage floor applications, adhering firmly on stem wall applications for coatings and flake systems. The addition of CSI Universal Color Packs into GS100C offers a multitude of color options time and reduces costs by eliminating the need for multiple products in your inventory.

Surface Preparation

Surface preparation is critical for proper adhesion and performance. The surface must be dry, porous, clean, sound and free of grease, oil, curing compounds, dust, mastic and other contaminants or bond breakers.

Determine the substrate Moisture Vapor Emission Rate (MVER) per ASTM F1869 prior to placing GS100C or GS100P. Acceptable substrates have an MVER less than or equal to 3 lbs/1000 sq ft per 24 hours and relative humidity less than or equal to 70% RH. For readings in excess of 3lbs and greater than 70% RH refer to CSI MVT Tech Data sheet. For readings in excess of 15lbs MVER and 95% RH contact CSI technical support technician for recommendations.

CSI utilizes the International Concrete Repair Institute's (ICRI) Concrete Surface Profile (CSP) standards for specifying finished surface roughness prior to applying General Service Epoxy. It is highly recommended to mechanically profile the surface to achieve ICRI Concrete Surface Profile (CSP) 2-4. Upon completion of mechanical preparation, remove all shot, dust, dirt and debris. If acid is used to obtain the surface profile, in lieu of mechanical profiling, the surface must be washed, neutralized and allowed to dry completely for at least 24 hours.

Mixing

Organize work area so that all personnel and equipment are in place before mixing. The mix ratio is 2 parts A :1 part B by volume. For full kits-Pour part A into a bucket (if pigmented premix for 2 minutes at low speed (less than 500 rpm) then add part B and mix for 2 minutes continuing with low speed to avoid air entrapment. Do not mix more than what can be placed within 30 minutes. DO NOT HAND MIX. Ensure that the material from the sides and bottom of the bucket have been thoroughly mixed in. Pot life is 30 minutes at 75 degrees. Pot life with Fast Cure additive is 15 minutes. Pot life and work times are shortened by higher temperatures. Pouring material onto the floor in ribbons immediately after mixing will extend the work time.

Application and Clean Up

CSI G100C & 100P may be applied by roller, trowel or squeegee. Tools may be cleaned with Xylene, or other solvents prior to material hardening.

Handling Precautions

For complete instructions on handling and use, consult the corresponding Material Safety Data Sheet before using product. It is the user's responsibility to review instructions and warnings for any CSI products. Avoid contact with the skin and use protective equipment as required. Wear protective gloves, protective clothing, eye protection, face protection and appropriate respirator equipment. Use in well ventilated areas. Dispose of contents and containers in accordance with local, state and federal regulations.

Warranty

CSI GS100C & GS100P is a proprietary product that is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact CSI.

Shelf Life

CSI GS100C & GS100P has a 1-year shelf life from date of manufacturing when properly stored in a dry, temperature-controlled environment.

First Aid

EYES: Flush thoroughly with water, lifting both eyelids. Get immediate medical attention.

SKIN: Wash with soap and water. If irritation develops seek medical attention.

INGESTION: Do not induce vomiting. Get immediate medical attention.

INHALATION: Remove to fresh air immediately. If breathing difficulty continues, administer oxygen. Get immediate medical attention.

Slip and Fall Precautions

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. CSI recommends the use of angular slip resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. CSI or its sales agents will not be responsible for injury incurred in a slip and fall accident.