

# Bridge Drain Adhesives

## CHAMPION MIX® (EPOXY ADHESIVE)

The CHAMPION MIX system is a two-part adhesive (1-to-1 mix ratio), epoxy resin system, designed to permanently bond fittings and joints of fiberglass reinforced epoxy bridge drain. It is also designed for use with pultruded polyester and vinyl ester components. Each cartridge system contains resin, hardener and one plastic mixer tip. An adhesive gun is required for applying the adhesive (ordered separately). Under normal conditions, it takes approximately 45 minutes for the CM-2040 and CM-2070 adhesives to harden at their rated temperatures. If a faster setting adhesive is desired, there are Champion Mix adhesives available that gel much faster. The "Fast Gel" adhesives can be specified by adding the suffixes, "-FG" or "-SFG" to the item numbers. Because the "Fast Gel" and "Super-Fast Gel" adhesives set up quicker, additional mixing tubes may be required. The epoxy adhesive is also available in three convenient dispensing tube sizes: 50 ML, 80 ML and 300 ML.

	ITEM NO	SIZE	TEMPERATURE RANGE	APPROXIMATE CURING TIME
<input type="checkbox"/>	CM-570	50 ML	70°F (21°C) and above	30–45 minutes
<input type="checkbox"/>	CM-570-FG	50 ML	70°F (21°C) and above	20–30 minutes
<input type="checkbox"/>	CM-570-SFG	50 ML	70°F (21°C) and above	3–7 minutes
<input type="checkbox"/>	CM-540	50 ML	40°–70°F (4°C–21°C)	30–45 minutes
<input type="checkbox"/>	CM-540-FG	50 ML	40°–70°F (4°C–21°C)	20–30 minutes
<input type="checkbox"/>	CM-540-SFG	50 ML	40°–70°F (4°C–21°C)	3–7 minutes
<input type="checkbox"/>	CM-1070	80 ML	70°F (21°C) and above	30–45 minutes
<input type="checkbox"/>	CM-1070-FG	80 ML	70°F (21°C) and above	20–30 minutes
<input type="checkbox"/>	CM-1070-SFG	80 ML	70°F (21°C) and above	3–7 minutes
<input type="checkbox"/>	CM-1040	80 ML	40°–70°F (4°C–21°C)	30–45 minutes
<input type="checkbox"/>	CM-1040-FG	80 ML	40°–70°F (4°C–21°C)	20–30 minutes
<input type="checkbox"/>	CM-1040-SFG	80 ML	40°–70°F (4°C–21°C)	3–7 minutes
<input type="checkbox"/>	CM-2070	300 ML	70°F (21°C) and above	30–45 minutes
<input type="checkbox"/>	CM-2070-FG	300 ML	70°F (21°C) and above	20–30 minutes
<input type="checkbox"/>	CM-2070-SFG	300 ML	70°F (21°C) and above	3–7 minutes
<input type="checkbox"/>	CM-2040	300 ML	40°–70°F (4°C–21°C)	30–45 minutes
<input type="checkbox"/>	CM-2040-FG	300 ML	40°–70°F (4°C–21°C)	20–30 minutes
<input type="checkbox"/>	CM-2040-SFG	300 ML	40°–70°F (4°C–21°C)	3–7 minutes



50 ML Tubes



80 ML Tubes



300 ML Tubes



## ADHESIVE GUNS

Champion Fiberglass adhesive guns are available for all three adhesive tube sizes: 50 ML, 80 ML and 300 ML.

	ITEM NO	ADHESIVE TUBE SIZE
<input type="checkbox"/>	CMAG-5	50 ML
<input type="checkbox"/>	CMAG-8	80 ML
<input type="checkbox"/>	CMAG-20	300 ML



CMAG-5



CMAG-8



CMAG-20

## BATTERY-POWERED ADHESIVE GUN

Champion Fiberglass 18V Li-Io battery-powered adhesive guns are only available for the 300 ML adhesive tube sizes. This powerful 18V cordless drive system is supplied with a sturdy 300 ML dispensing cartridge carriage.

Other features include:

- Flow control – instant drive disengagement when trigger is released
- Lightweight ergonomic design – reduces wrist and arm strain
- Rapid battery charging – 30 minutes
- Battery fuel gauge – indicates charging power battery level

All battery-powered adhesive guns are supplied fully assembled and supplied with one (1) 18V Li-Io battery and one (1) 18V charger.

	ITEM NO	ADHESIVE TUBE SIZE
<input type="checkbox"/>	CMAG-20-B	300 ML



CMAG-20-B

## MIXING TIPS

Champion Fiberglass mixing tips are required for mixing together the two-part epoxy adhesive supplied in tubes. They are available for all three adhesive tube sizes: 50 ML, 80 ML and 300 ML.

	ITEM NO	ADHESIVE TUBE SIZE
<input type="checkbox"/>	CM-MT-5	50 ML
<input type="checkbox"/>	CM-MT-8	80 ML
<input type="checkbox"/>	CM-MT-20	300 ML



## EPOXY ADHESIVE KIT

Champion Fiberglass Epoxy Adhesive Kit, contains two cans, one with base epoxy adhesive (black color) and the other with hardener (white color), stir sticks, sandpaper for abrading conduit surfaces and an instruction sheet. When properly mixed, the adhesive will be evenly grey. The cans are available in two sizes, 32 oz. and 128 oz.

The adhesive kit is offered for three different ambient curing temperatures:

- 70°F (21°C) ambient temperature
- 40°F (4°C) ambient temperature
- 20°F (-7°C) ambient temperature

	ITEM NO	CAN SIZE (OZ)	TEMPERATURE RANGE (°F)	APPROX CURING TIME (MIN)
<input type="checkbox"/>	CF-3220	32 oz	20°-40°F	30-45 minutes
<input type="checkbox"/>	CF-3240	32 oz	40°-70°F	30-45 minutes
<input type="checkbox"/>	CF-3240-FG	32 oz	40°-70°F	20-30 minutes
<input type="checkbox"/>	CF-3240-SFG	32 oz	40°-70°F	3-7 minutes
<input type="checkbox"/>	CF-3270	32 oz	70°F and above	30-45 minutes
<input type="checkbox"/>	CF-3270-FG	32 oz	70°F and above	20-30 minutes
<input type="checkbox"/>	CF-3270-SFG	32 oz	70°F and above	3-7 minutes
<input type="checkbox"/>	CF-12820	128 oz	20°-40°F	30-45 minutes
<input type="checkbox"/>	CF-12840	128 oz	40°-70°F	30-45 minutes
<input type="checkbox"/>	CF-12840-FG	128 oz	40°-70°F	20-30 minutes
<input type="checkbox"/>	CF-12840-SFG	128 oz	40°-70°F	3-7 minutes
<input type="checkbox"/>	CF-12870	128 oz	70°F and above	30-45 minutes
<input type="checkbox"/>	CF-12870-FG	128 oz	70°F and above	20-30 minutes
<input type="checkbox"/>	CF-12870-SFG	128 oz	70°F and above	3-7 minutes



Adhesive curing time is dependent on the ambient temperature. As a guideline, the 70°F adhesive is cured at 75°F (29°C) in 30-45 minutes. Contact Champion Fiberglass for curing information at extreme temperatures (high or low). Champion Fiberglass adhesive can be used for bonding fiberglass and PVC together.

### Estimated Amount of Adhesive Required per Joint Size

Estimated amounts only for one joint - to determine the amount of adhesive required for a project, multiply the number of ounces required by the number of joints by size - amounts may vary depending on amount of adhesive applied per application.

BRIDGE DRAIN SIZE	ADHESIVE OZ PER JOINT (ML)
4"	4 (118)
6"	6 (177)
8"	8 (236)
10"	10 (295)
12"	12 (354)
14"	14 (414)
16"	16 (473)
18"	18 (532)
20"	20 (591)
24"	24 (710)