



# WATERPROOFING

## MiraSTOP™ CG-HS

### Description

MiraSTOP CG-HS is a **Chemical Grout with High Strength** once it is combined with MiraSTOP CG-HS CAT (Catalyst) and then allowed to react with water. This one-component, solvent-free, high-expansion, high-strength polyurethane injection resin is mainly used for wet cracks and water cutoff applications and has a free expansion of +4,000%.

The reaction speed can be adapted easily by varying the catalyst content from 6% to 10%. The more catalyst is added, the faster the reaction time will be. The reaction with water yields a flexible polyurethane foam with closed cells that will neither shrink nor swell. A high compression strength is obtained in very short time.

### Installation

Pour the MiraSTOP CG-HS resin into a dry, clean 5-gal pail. Shake the MiraSTOP CG-HS CAT well and add to the resin in a ratio of 6% to 10% in function of the desired reaction speed (refer to Reaction Time Chart). Stir until sufficiently mixed and without streaks.

Use a one-component pump dedicated specifically to MiraSTOP polyurethane chemical grouts. Pumps should be cleaned with MiraSTOP Pump Flush, a cleaning agent specially developed for cleaning of polyurethane injection pumps.

Refer to ASTM D8109 - Standard Guide for Waterproofing Repair of Concrete by Chemical Grout Crack Injection for joint/crack preparation, port spacing, port drilling procedures, packer placement, and grout injection procedures

MiraSTOP CG-HS is very hygroscopic and packed under dry atmosphere. Use opened containers as soon as possible.

### Reaction Time\*

Catalyst Dosage	Reaction Speed	Polymerization
6%	15 seconds	70 seconds
8%	12 seconds	55 seconds
10%	9 seconds	45 seconds

\*Typical times measured at room temperature.



### Packaging

MiraSTOP CG-HS is supplied in 5-gal metal pails, 36 pails (180 gal) per pallet.

MiraSTOP CG-HS CAT is supplied in 32 oz. cans, 8 cans per carton, 60 cartons (480 cans) per pallet.

### Availability

Available through local CCW and Henry® Representatives or Distribution. Visit [www.carlisleccw.com](http://www.carlisleccw.com) or [www.henry.com](http://www.henry.com) to contact us, or select "Find a Rep or Distributor."

### Limitations

MiraSTOP CG-HS resin must be used with MiraSTOP CG-HS CAT.

### Warnings and Hazards

Review Safety Data Sheets before handling; available online at [www.carlisleccw.com](http://www.carlisleccw.com) or [www.henry.com](http://www.henry.com).

Do not breathe dust, fumes, mist, vapor, or spray. In case of inadequate ventilation, wear proper respiratory protection.

Wear proper protective gloves, clothing, and eye/face protection.

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## MiraSTOP CG-HS

### Storage

To avoid problems, it is very important to understand that both the MiraSTOP CG-HS resin and MiraSTOP CG-HS CAT are temperature- and moisture-sensitive. Always store resin and catalyst in a protected and dry location in original, unopened containers. Do not store in direct sunlight or in temperatures below 50°F (10°C) or above 86°F (30°C).

For best results, acclimate both the resin and catalyst at temperatures between 65–75°F (18–24°C) for a minimum of 24 hours prior to application.

When stored at temperatures between 50–86°F (10–30°C) in the original, unopened containers, shelf life for both the resin and catalyst is 12 months.

### Disposal

Uncured resin and catalyst are considered hazardous materials and must be handled and disposed as such, in accordance with local, state, and federal regulations.

### Physical Properties

Property	Typical Value	Test Method
<b>MiraSTOP CG-HS Resin</b>		
Density	72,29 lb/ft <sup>3</sup>	EN ISO 2811-2:2002
Viscosity	96 mPa.s	EN ISO 3219:1994
Isocyanate	18,1 M.-%	EN 1242:2006
Flash Point	> 300°F	
Color	Brown	
<b>MiraSTOP CG-HS CAT (Catalyst)</b>		
Density	55,50 lb/ft <sup>3</sup>	EN ISO 2811-2:2002
Viscosity	21 mPa.s	EN ISO 3219:1994
Flash Point	> 300°F	
Color	Transparent	
<b>MiraSTOP CG-HS Cured Grout</b>		
Density Free Foam	2.2 lbs. PC Ft	ASTM D3574
Density Confined	87.4 lbs. per ft. 1.4 g/cm <sup>3</sup>	ASTM D3574 EN ISO 2811
Compressive Strength	40 – 4,200 psi	Contingent on confinement

### Limited Warranty

Carlisle Coatings & Waterproofing Incorporated (Carlisle) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any Carlisle materials prove to contain manufacturing defects that substantially affect their performance, Carlisle will, at its option, replace the materials or refund its purchase price. This limited warranty is the only warranty extended by Carlisle with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. Carlisle specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever. The dollar value of Carlisle's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the Carlisle material in question.