

1. Product Information

Description

Genesis GC-1800 is a rapid setting, 100% solids, flexible, aromatic two-component polyurea. This odorless volatile-free elastomeric is specially designed to be applied to various substrates including concrete, metal, geotextile and other lining membranes. GC-1800 gels in 15 seconds—it can be applied in single or multiple applications without the concern of sagging. GC-1800 offers a tack-free time of about 3 minutes and a low amount of stress shrinkage from curing, <0.7%.

Features

- Rapid Cure
- 1:1 Mix Ratio
- 100% Solids
- No VOCs
- Odorless
- 39 Shore D Harness
- 300% or greater elongation
- Extended re-coat Window

Limitations

Cannot be used in situations of extremely high or low pH, coupled with high temperature immersion. Contact Genesis Poly for a more suitable system.

2. Product Use

Applications

- Geotextile Coatings
- Over Foam Coatings
- Flexible Membranes
- Secondary Containment
- Oil Production Containments
- Waterproofing
- Other Liners

Coverage Rates

Mils	10	15	50	60	80
Sq. Ft.	160	107	32	27	20

The above are theoretical coverage rates and can vary on the substrate condition and texture.

Mixing

Must be installed using a 1:1 ratio plural high-pressure, heated pump, fitted with high-pressure impingement mix spray gun. The proper necessary equipment can vary by the individual application. Contact Genesis Poly for more support.

3. Physical Properties

Mix Ratio by Volume	1:1
Gel Time (Seconds)	15
Tack-Free Time (Minutes)	3
VOC Content	0
Solids Content	100
Shore A Hardness <i>ASTM D2240</i>	90
Shore D Hardness, <i>ASTM D2240</i>	39
Elongation, <i>ASTM D638, Type IV</i> <i>ASTM D412, Die C</i>	425-450
Tensile Strength (PSI), <i>ASTM D638, Type IV</i> <i>ASTM D412, Die C</i>	1900-2100
Tear Strength (lb./in.), <i>ASTM D624, Die C</i>	310-330
Taber Abrasion, <i>ASTM D4060</i> <i>(CS-17 Wheel, 1000 Cycles)</i>	< 25
Water Vapor Transmission, <i>ASTM E96</i> , Proc A, permeability (80 mils), grams/Pa*s*m	8.63E-11

The values stated in this technical data sheet are produced under controlled laboratory conditions.

4. Preparation and Installation

Coating performance and adhesion are directly related to surface preparation. Many surface-coating failures can be attributed to improper surface preparation. Coatings are partially dependent on the integrity and structure strength of the substrate. A properly prepared substrate is free of contaminants, including but not limited to dust, dirt, oil, grease, rust, and corrosion. In certain applications, priming the substrate will be required prior to applying GC-1800. For additional information, please review the material processing and handling guide or contact a member of the Genesis Poly technical support team.

5. Colors

GC1800 comes in 3 standard colors: Tan, Black, and Light Gray. If you need a special color for a specific application, please contact Genesis Poly for more information.

6. Packaging

30 Gallon Kit

15 Gallons Part-A (Isocyanate) and 15 Gallons Part-B (Resin)

106 Gallon Kit

53 Gallons Part-A (Isocyanate) and 53 Gallons Part-B (Resin)

Products are packaged by weight, so final package volume is a close estimation.

7. Shelf Life

A properly stored product in original, unopened factory containers, kept at a temperature above freezing should have a shelf life of 12 months from the date of shipment.

8. Safety

For in-depth information on product safety and precautions, please review the product SDS sheets. Prior to using the product, ensure that you have the proper personal protection equipment (PPE) available. This includes but is not limited to the following items:

- Safety Glasses with a splash shield
- Minimum Organic Cartridge Respirator
- Rubber or Nitrile Gloves
- Disposable or Reusable Long Sleeve Overalls
- Rubber or leather boots

Always be sure to follow the precautions listed below when using the material:

- Do Not use near high heat or open flame
- Do Not take internally
- Keep out of reach of children

9. Maintenance

No Information Provided

10. Clean-Up / Disposal

Excess material can be mixed together at the proper ratio and disposed of without restriction once cured. Product containers may be disposed of according to local, state and federal laws.

11. Warranty

At its sole election, Genesis Poly LLC (the company) will refund the price of or replace product it finds to be defective provided the product has been used properly and installed by a certified Genesis Poly LLC applicator. Except as expressly stated above, the company makes no warranty of merchantability and no warranty of fitness for any particular purpose; nor does it make any warranty, express or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, loss of use, indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.

12. Technical Support

For technical support, please call 801-208-5511 Monday to Friday between the hours of 8am – 5pm MST. You may also send an email anytime to support@genesispoly.com.

13. Other Information

Genesis Poly LLC
2101 E Murray Holladay Rd
Holladay, UT 84117

Office: 801-208-5598
Email: info@genesispoly.com
Web: www.genesispoly.com

Created Date: 03/01/2018
Revised Date: 09/19/2018
Notes: Not Available