INTRODUCTION

FOAMGLAS® CELLULAR GLASS INSULATION IS PROVEN VALUE

PRODUCT VALUES
FOAMGLAS® cellular glass insulation is the result of more than a half-century of proven performance and continual product improvement by Pittsburgh Corning Corporation, the developer of cellular glass insulation.

Selection and Experience
FOAMGLAS® insulation is comprised of a family of seven material grades providing the precise properties and performance for your specific applications, from -450°F to +900°F (-268°C to +482°C). Billions of square feet and lineal feet have been installed throughout the world in thousands of industries and operations.

Worldwide Availability
With plants in the U.S. and Europe, Pittsburgh Corning Corporation and Pittsburgh Corning Europe can uniquely provide consistency of supply, a millions-of-board-feet inventory and ready availability.

Accessory Products
In addition, Pittsburgh Corning offers a full line of complementary accessory products, each laboratory- and service-proven to provide maximum performance specifically with FOAMGLAS® cellular glass insulation.

SERVICE VALUES
Equally critical to product performance is the added value of Pittsburgh Corning's support services to ensure that the product is smoothly and properly incorporated into the customer's requirements, project and facility.

Technical Service
Pittsburgh Corning's Technical Service Staff provides product, application and materials testing—standardized and customized specifications—on-site customer assistance and installation guidance.

Energy Analysis Service
To simplify your insulation specification process, Pittsburgh Corning offers an Energy/Economic Analysis Service, resulting in our exclusive Energy Analysis Report (EAR). Developed with customer-specific data subjected to computer analysis and other calculations, EARs assist systems designers in specifying the proper insulation thicknesses for above or below ground pipelines and for storage vessels, tanks and other equipment. Typical reports present heat flow rates, interface and surface temperatures, and insulation thicknesses required to prevent condensation.

Specialized reports are available for:
- Underground pipelines
- Predicting outlet temperatures
- Estimating exit pressure and quality of steam for long steamlines
- Determining the time for water and sewage to freeze in pipelines
- Calculating heat flow and interface temperatures for tank base systems.

Requests for EARs can be made through your local Pittsburgh Corning representative, or the Energy Analysis Department at our Pittsburgh headquarters by calling 1-800-359-8433.

Sales Support
A system of local sales representatives and distributors are available for consultation and problem resolution. Training videos, CD-ROM presentations and literature, are also available from your local sales personnel. Literature is also available electronically on our website at: www.foamglasinsulation.com.

Industry Support
Pittsburgh Corning supports technical and trade organizations, including ASTM, CSI, IDEA, ASHRAE, NACE, NIA, UL and FM. The result is an ever-growing series of application and regional certifications and approvals (see page 18) that provide you with complete assurance of materials compliance for a variety of installations. Pittsburgh Corning is also an ISO 9002 company with registered production processes regarding quality control.
A UNIQUE COMBINATION OF PROPERTIES CREATES THE INSULATION OF CHOICE

SUPERIOR PHYSICAL ATTRIBUTES
FOAMGLAS® insulation is a lightweight, rigid insulating material composed of millions of completely sealed glass cells, each an insulating space. This all-glass, closed-cell structure provides an unmatched combination of physical properties ideal for piping and equipment above ground, as well as underground, indoors or outdoors, at operating temperatures from -450°F to +100°F (-268°C to +482°C):

- Resistant to water in both liquid and vapor forms
- Noncorrosive
- Noncombustible/nonabsorbent of combustible liquids
- Resistant to most industrial reagents
- Dimensionally stable under a variety of temperature and humidity conditions
- Superior compressive strength
- Resistant to vermin, microbes and mold
- Fiber, CFC and HCFC free.

MANY UNIQUE BENEFITS
FOAMGLAS® insulation’s diversity of properties results in an equally unmatched combination of benefits, proven over decades of in-the-field performance:

- Constant, long-term energy efficiency provides low, predictable energy costs
- Enhanced process control allows improved, consistent product quality
- Minimal maintenance/repair/replacement of insulation or facility infrastructure reduces life cycle costs
- Fire resistance protects the insulated equipment, and helps minimize subsequent plant shutdown time

- Virtual elimination of the potential for auto-ignition from absorbed combustible liquids or fire from condensed low-temperature gases
- Proven durability for underground and exterior installations
- Manufacturing of FOAMGLAS® insulation puts no stress on the atmosphere’s ozone layer ... while its long-term thermal efficiencies reduce energy demand and the effects of burning fossil fuels on the environment.

WIDE-RANGING, SERVICE-PROVEN APPLICATIONS
FOAMGLAS® insulation has over 50 years of applications that have stood the test of time with a record untouched by any other insulation product on the market:

- Cryogenic and low-temperature pipelines, vessels, tanks and equipment
- Medium- and high-temperature pipelines and equipment
- Heat traced pipes and equipment
- Hot oil/asphalt storage tanks
- Heat transfer fluid systems
- Hydrocarbon and sulfur processing systems
- Underground steam and chilled water piping
- Chilled and hot water service lines
- Off-shore platforms
- Above ground steam lines
- Pulp/paper mills and water treatment plants
- Food processing/cold storage facilities and breweries
- Cyclic and dual temperature applications

For each of these applications and for all special conditions, FOAMGLAS® insulation is fabricated in a wide range of shapes, thicknesses and sizes to meet virtually all industrial requirements. Pittsburgh Corning’s many accessory products are designed to produce the maximum insulation system performance.
Physical and Thermal Properties of FOAMGLAS® Insulation

### Physical Properties

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>USA</th>
<th>Metric</th>
<th>SI</th>
<th>ASTM Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorption of Moisture (% By Volume)</td>
<td>0.2%</td>
<td></td>
<td></td>
<td>C 240</td>
</tr>
<tr>
<td>Water-Vapor Permeability (0.00 perm-in)</td>
<td>0.00 perm-cm</td>
<td></td>
<td></td>
<td>E 96†</td>
</tr>
<tr>
<td>Acid Resistance</td>
<td>Impervious to common acids and their fumes except hydrofluoric acid.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capillarity</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combustibility</td>
<td>Noncombustible, will not burn.</td>
<td></td>
<td></td>
<td>E 136</td>
</tr>
<tr>
<td>Composition</td>
<td>Pure glass, totally inorganic, contains no binder.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>90 psi</td>
<td>63 kg/cm²</td>
<td>620 kPa</td>
<td>C 165, C 240, C 552-00</td>
</tr>
<tr>
<td>Density, Average</td>
<td>7.5 lb/ft³</td>
<td>120 kg/m³</td>
<td>120 kg/m³</td>
<td>C 203, C 240</td>
</tr>
<tr>
<td>Flexural Strength, Block-Average</td>
<td>70 psi</td>
<td>4.9 kg/cm²</td>
<td>480 kPa</td>
<td>C 203, C 240</td>
</tr>
<tr>
<td>Hygroscopicity</td>
<td>No increase in weight at 90% relative humidity.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear Coefficient of Thermal Expansion (25° to 300°C)</td>
<td>5.0 x 10⁻⁶/°F</td>
<td>9.0 x 10⁻⁶/°C</td>
<td>9.0 x 10⁻⁶/°K</td>
<td>E 228</td>
</tr>
<tr>
<td>Maximum Service Temperature</td>
<td>+900°F</td>
<td>+482°C</td>
<td>755°K</td>
<td></td>
</tr>
<tr>
<td>Modulus of Elasticity, Approx.</td>
<td>1.3 x 10⁶ psi</td>
<td>9,300 kg/cm²</td>
<td>900 MPa</td>
<td>C 623</td>
</tr>
<tr>
<td>Shear Strength</td>
<td>No reliable recognized test method for determination of the shear strength for cellular glass exists at this time. Where shear strength is a design criterion, PCC should be contacted for recommendations.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>Btu-in/hr•ft•°F</td>
<td>kcal/hr•cm•°C</td>
<td>W/mK</td>
<td>C 177, C 218</td>
</tr>
<tr>
<td>Specific Heat</td>
<td>0.20 Btu/lb•°F</td>
<td>0.20 kcal/kg•°C</td>
<td>0.84 kJ/kg•°K</td>
<td></td>
</tr>
<tr>
<td>Thermal Diffusivity</td>
<td>0.016 ft²/hr</td>
<td>0.0042 cm/sec</td>
<td>4.2 x 10⁻⁷ m²/sec</td>
<td></td>
</tr>
</tbody>
</table>

Note: Properties given at 75°F unless otherwise specified. Properties may vary with temperature. These values are average or typical values recommended for design purposes, and are not intended as specification or limit values. † E 96 Wet Cup Method/Procedure B

### Thermal Properties

<table>
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</table>

Note: 0.8 N/mm² = 800 kPa
This specification is offered as a guide for the purpose described herein and should be employed at the discretion of the user. **These specifications are written specifically for FOAMGLAS® cellular glass insulation. No warranty of procedures, either expressed or implied, is intended.** Before using this specification, contact Pittsburgh Corning Corporation to ensure that current details and revisions are incorporated. Pittsburgh Corning Corporation will review plans and specifications of users at no charge to assist in ensuring that proper procedures and materials are used. **However, the ultimate design and installation are the responsibility of the engineer or architect.**

**GENERAL NOTES**

1. These specifications are general in nature. For specific applications, contact your Pittsburgh Corning representative as listed on the back cover. The final application procedure is the responsibility of the project designer and/or owner. **No warranty of any nature, either expressed or implied, is made as to application or installation.**

2. Prior to application of insulation, surfaces to be insulated must be dry and clean. The use of primers or corrosion-resistant coatings is at the discretion of the owner or the design engineer. All testing, such as hydrostatic, X-ray, etc., should be completed prior to the application of the insulation.

3. The proper insulation thickness should be determined through calculations based on operating, environmental, and any other special conditions. Contact your Pittsburgh Corning representative if calculations are desired.

4. Multiple layers may be required:
   - When the total insulation thickness required is greater than the maximum single-layer thickness available.
   - To provide an outer layer that falls entirely within the applicable temperature range of a sealant, if one is used.
   - To eliminate through joints on piping or equipment operating at extreme temperatures.

5. The use of a bore-coating on the inner surface of the insulation in contact with the pipe may be required if the piping undergoes frequent temperature cycles or if pronounced vibration is present. Contact your Pittsburgh Corning representative for bore-coating recommendations.

6. Ambient temperature is to be defined by the design engineer based on job-site conditions.

7. **Precautions.** There are three situations which require precautions. Contact Pittsburgh Corning for proper procedures to overcome these situations.

   - Direct exposure to:
     - Hydrofluoric acid or strong caustics
     - Water during freeze-thaw cycling
     - Prolonged exposure to condensing steam or boiling water.

**TEMPERATURES BELOW -290°F (-179°C)**

Because of the highly specialized nature of applying insulation in this temperature range, it is recommended that you contact your Pittsburgh Corning representative for materials and procedures. Of prime concern is that components of such a system be compatible with liquid oxygen.

**-290°F TO -60°F (-179°C TO -51°C)**

FOAMGLAS® insulation shall be applied in multiple layers with all joints staggered between layers. The number and thickness of layers shall be calculated so that the innermost layer is entirely above -60°F (-51°C). The outermost layer shall have all joints sealed with joint sealant.

Inner layers of piping insulation may be secured with fiber-reinforced tape. The outermost layer of insulation shall be secured with metal bands of appropriate width and thickness, two bands per insulation section.

The finish over the insulation may be either vapor retarder or weather-barrier reinforced mastic, and/or metal jacketing.
The exterior surface of the insulation under metal jacket shall be coated with PITTCOTE® 300 coating to fill the surface cells.

FOAMGLAS® insulation is impermeable to water or water vapor under most conditions, and providing that all joints between insulation sections are properly sealed, no vapor retarder is required. The designer may desire the use of a vapor retarder as a redundant measure.

**-60°F (-51°C) to Ambient**

FOAMGLAS® insulation may be applied in a single layer where thickness permits. The use of joint sealant is recommended on all systems that operate below ambient temperature for any length of time, and is required on systems that operate at or below 36°F. In cases where the below ambient system is operating at a temperature higher than 36°F, and the outdoor relative humidity is not routinely expected to exceed 50%, the use of a joint sealant is at the discretion of the design engineer.

For securement and finish recommendations, see the above procedures given for -290°F to -60°F (-179°C to -51°C).

The exterior surface of the insulation under metal jacket shall be coated with PITTCOTE® 300 coating to fill the surface cells.

Tanks, spheres, and vessels operating in this temperature range may also be insulated by adhering FOAMGLAS® insulation to curved or flat surfaces using PC® 88 adhesive. This adhesive may also be used as the joint sealant. Contact your Pittsburgh Corning representative for specifications of materials and procedures for this method.

**Ambient to 400°F (204°C)**

FOAMGLAS® insulation shall be applied in a single layer. No joint sealant is required. Staggering of joints is at the discretion of the owner or the design engineer. Pipe insulation may be secured using fiber-reinforced tape if a metal jacket will be used, or with metal bands if a reinforced weather-barrier mastic will be used.

Insulation on vessels shall be secured using metal bands. For operating temperatures up to 160°F (71°C), PC® 88 adhesive may be used to secure the insulation. Contact your Pittsburgh Corning representative for details concerning the use of PC® 88 adhesive.

The finish over FOAMGLAS® insulation on either piping or vessels may be a reinforced weather-barrier mastic or a metal jacket.

**ABOVE 400°F (204°C)**

Pittsburgh Corning offers several different procedures for applying FOAMGLAS® insulation to piping and vessels operating above 400°F (204°C). The preferred system is the StrataFab® System. Contact your Pittsburgh Corning representative for recommendations on various alternatives.

**StrataFab® System**

**-100°F to 900°F (-73°C to 482°C)**

The StrataFab® System shall be applied as a single layer for the temperature range of -60°F to 900°F (-51°C to 482°C). The use of joint sealant is recommended on all systems that operate below ambient temperature for any length of time, and is required on systems that operate at or below 36°F. In cases where the below ambient system is operating at a temperature higher than 36°F, and the outdoor relative humidity is not routinely expected to exceed 50%, the use of a joint sealant is at the discretion of the design engineer. For the temperature range of ambient to 900°F (482°C) no sealant is necessary.

StrataFab® System pipe insulation may be applied using fiber-reinforced tape or metal bands. StrataFab® System insulation for vessels tanks and equipment may be applied with metal bands, weld pins or PC® 88 adhesive, as appropriate for the application. Contact your Pittsburgh Corning Corporation Representative for more information about these systems.

The finish used over the FOAMGLAS® Insulation StrataFab® System may be a weather barrier mastic or metal jacket.

On below-ambient systems, the exterior surface of the insulation under metal jacket shall be coated with PITTCOTE® 300 coating to fill the surface cells.

* For applications from -100°F to -60°F (-73°C to -51°C) refer to the application procedures for FOAMGLAS® insulation in the temperature range of -290°F to -60°F (-179°C to -51°C).
FABRICATED FOAMGLAS® INSULATION SYSTEMS

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>BENEFITS</th>
<th>RECOMMENDED TEMPERATURE RANGE</th>
<th>LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt Bonded</td>
<td>• Standard, readily available fabrication technique for cold to moderately warm applications.</td>
<td>-290°F (-179°C) to 250°F (121°C)</td>
<td>• Do not use at or below temperatures where liquid oxygen (LOX) will form (-297°F/-183°C).</td>
</tr>
<tr>
<td>HYDROCAL® B-11™ Bonded</td>
<td>• Fabrication technique allows usage over broadest temperature range.</td>
<td>-450°F (-268°C) to Ambient</td>
<td>• Joint zone is permeable to water vapor below ambient. Use a double layer system, seal joints of outer layer with PITTSEAL® 444N, cover with a vapor retarder finish.</td>
</tr>
<tr>
<td>StrataFab® System</td>
<td>• Minimal breakage during shipment and installation.</td>
<td>-100°F (-173°C) to Ambient</td>
<td>• Joint zone is permeable to water vapor below ambient. Use a double layer system, seal joints of outer layer with PITTSEAL® 444N, cover with a vapor retarder finish.</td>
</tr>
<tr>
<td>Composite System</td>
<td>• Fabrication technique allows usage on systems:</td>
<td>401°F (205°C) to 1200°F (649°C)</td>
<td>• Not for service on systems containing combustible liquids.</td>
</tr>
<tr>
<td>Advantage® System</td>
<td>• Provides excellent control of stress relief cracking</td>
<td>Ambient to 900°F (482°C)</td>
<td>• Organic facing adhesive may smoke in contact with hot surfaces.</td>
</tr>
</tbody>
</table>
TYPICAL ABOVE GROUND INSTALLATION DETAILS

FIGURE 9: Two-Layer Expansion Contraction Joint

- COLD Process: PITTSEAL® 444N Sealant
- HOT Process: Hydrocal® B11
- To Provide Slip Surface

図中には、2インチのクッション材を使用しています。

FIGURE 10: Vertical Contraction Joint

- COLD Process Only: Stainless Steel Bands Both Sides
- COLD Process Only: Vapor Barrier Sheet

図中には、9インチのクッション材を使用しています。

Contact your Pittsburgh Corning representative for assistance on other typical details.
FIGURE 11: Insulation on Line Flanges

Cushioning material typically TYPE E Glass Fiber Pelt.
Contact your Pittsburgh Corning representative for assistance on other typical details.

FIGURE 12: Pipe Hanger Assembly Insulation
UNDERGROUND SYSTEMS AND PIPE SUPPORTS/HANGERS

Underground Systems
For direct burial of insulated pipes and vessels, FOAMGLAS® insulation is uniquely qualified for such remote, inaccessible applications. In this type of an installation without protective tunnels, high compressive strength in an insulation material is mandatory. When properly designed and installed with FOAMGLAS® insulation incorporating a protective jacketing, neither overburden loads nor above ground traffic are critical design issues. The long-term thermal efficiencies, impermeability, corrosion resistance and extended service life of FOAMGLAS® insulation make it an ideal choice for cost-effective field installed systems.

For design information, refer to Pittsburgh Corning Corporation's FOAMGLAS® Insulation Systems for Underground Direct Burial Applications (FI-213).

Pipe Supports and Hangers
An insulation that has the ability to be used as a support component eliminates or significantly reduces the potential problems of direct thermal paths in the system. Resistance to settlement or failure of insulated pipe supports also means that pipes remain in their proper alignment, without stresses at nozzles, flanges or fittings. FOAMGLAS® insulation also supports its own weight without sagging or slumping, making it ideal for vertical pipe runs of all heights (see Figure 13).

For design information, refer to Pittsburgh Corning Corporation's Guidelines for Using FOAMGLAS® Insulation at Pipe Hangers and Supports (Specification I-S-83-07-01).

FIGURE 13: Insulated Pipe Hanger (Clevis Type Only)

Contact your Pittsburgh Corning representative for assistance on other typical details.
FOAMGLAS® INSULATION SYSTEMS

ACCESSORY MATERIALS

Pittsburgh Corning Corporation offers a line of accessory materials exclusively designed for FOAMGLAS® cellular glass insulation for use in major types of industrial applications.

Pittsburgh Corning Corporation is continually evaluating accessory materials. While these materials are tested and selected especially for use with FOAMGLAS® insulation, the information given here is for general guidance. For the latest recommendations and specific data sheets on the individual accessories, consult your distributor or Pittsburgh Corning Corporation.

Pittsburgh Corning makes no warranties whatsoever, and specifically disclaims warranties of merchantability and fitness for a particular use for these accessory products.

Adhesives

PC® 88 ADHESIVE. A multi-purpose, two component adhesive for adhering FOAMGLAS® insulation to itself or to other porous or non-porous substrates. Air curing is not required. It has excellent wetting characteristics and cures to form a flexible bond that absorbs mechanical and thermal shock. Service temperature range: low to moderate.

PC® RTV 450 SILICONE ADHESIVE. A one-part, acetoxy cure, silicone adhesive/sealant formulated for use at high temperatures. It cures to an elastomeric solid at room temperature. Service temperature range: -50°F to 400°F (-45°C to 204°C).

Sealants

PITTCOTE® 444N SEALANT. Non-setting butyl sealant used for sealing joints in FOAMGLAS® insulation systems, and to seal protrusions and metal jacket laps. Stainless steel compatible. Service temperature range: low to moderate.

PITTCOTE® 727 SEALANT. A specially formulated styrene-butadiene rubber sealant used for sealing joints in FOAMGLAS® insulation systems, and to seal protrusions and metal jacket laps. Stainless steel compatible. Preferred for chilled water applications.

Coatings

PITTCOTE® 300 COATING. Vapor and weather barrier asphalt coating especially formulated for use with FOAMGLAS® insulation. Service temperature range: low to moderate.

PITTCOTE® 404 COATING. A highly flexible acrylic latex coating used with FOAMGLAS® insulation where a superior weather barrier coating is required. Service temperature range: low to moderate.

Fabric

PC® FABRIC 79. An open mesh synthetic fabric for reinforcing PITTCOTE® 404 or PITTCOTE® 300 coating over FOAMGLAS® insulation. Service temperature range: low to moderate.

Jacketing

PITTWRAP® jacketing is a 125 mil (3.2 mm) thick heat-sealable, multi-ply laminate for protecting underground FOAMGLAS® systems with outer surface temperatures below 190°F (87.7°C). PITTWRAP® jacketing consists of three layers of a polymer-modified, bituminous compound separated by glass reinforcement and aluminum foil. An outer layer of polyester film is laminated to the bituminous compound. Release paper prevents sticking in the roll before use. PITTWRAP® jacketing may also be factory-applied on the insulation.

PITTWRAP® SS jacketing is a 70 mil (1.8 mm) thick self-sealing, modified bituminous membrane for protecting underground FOAMGLAS® insulation systems with outer surface temperatures below 170°F (76.7°C). Manual pressure seals the jacketing without the use of a torch or heater. PITTWRAP® SS jacketing may also be factory-applied on the insulation.

PITTWRAP® CW Plus jacketing is a 50 mil (1.3 mm) thick self-sealing, modified bituminous membrane for protecting underground FOAMGLAS® insulation systems on chillwater and hot service pipelines. Manual pressure seals the jacketing without the use of a torch or heater. PITTWRAP® CW Plus jacketing may also be factory-applied on the insulation.
**ACCESSORY MATERIALS**

**PITTWRAP® CW30** jacketing is a 30 mil (0.8 mm) thick self-sealing, modified bituminous membrane for protecting above ground FOAMGLAS® insulation systems on chillwater and hot service pipelines. Manual pressure seals the jacketing without the use of a torch or heater. Metal jacketing must be used over the PITTWRAP® CW30 jacketing for UV protection. PITTWRAP® CW30 jacketing cannot be factory-applied on the insulation.*

PITTWRAP® CW30 jacketing consists of a polymer modified bituminous compound reinforced with a 4 mil (0.1 mm) high density cross laminate polyethylene top film and release paper backing.

**Miscellaneous**

**ANTI-ABRASIVE 2A.** An oil modified urethane coating designed for use as a bore coating or anti-abrasive coating for FOAMGLAS® insulation. Temperature range: very low to moderate.

**HYDROCAL® B-11.** A reactive gypsum product which when mixed with water forms an inorganic, noncombustible adhesive or coating for fabricating or bore coating FOAMGLAS® insulation.

**PC® 136 ADHESIVE.** A reactive cementitious product that is mixed with water to form an inorganic, noncombustible adhesive or coating for fabricating, bore coating or forming HT reinforced FOAMGLAS® insulation shapes. It is normally used at ambient and above temperatures to 900°F (482°C) where stress-crack corrosion is a concern with stainless steel.

* Do not use in underground tunnels/trenches where jacketing will be exposed to air temperatures in excess of 140°F (60°C).

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**FOR COMPLETE DATA ON FOAMGLAS® INSULATION SYSTEMS, CONTACT PITTSBURGH CORNING’S MARKETING DEPARTMENT**

**CORPORATE HEADQUARTERS**
800 Presque Isle Drive
Pittsburgh, PA 15239-2799
724-327-6100
800-359-8433
Fax: 724-325-9704

**INTERNATIONAL**
Pittsburgh Corning International Sales Corporation
724-327-6100
Fax: 724-733-4815

**CANADA**
Edmonton, Alberta
780-424-2640
Montreal, Quebec
514-866-9100

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Hydrocal® is a registered trademark of U.S. Gypsum Company.