

April 20, 2017

RE: GCP – Applied Technologies Waterproofing and Air Barrier Materials
LEED V4 Green Building Rating System™

To Whom It May Concern:

This letter will detail the contribution of GCP – Applied Technologies Waterproofing and Air Barrier materials to the LEED V4 Green Building Rating System™ for New Construction, Major Renovations of existing buildings, Core & Shell and Schools.

MR Credit 2.1: Construction Waste Management, Divert 50% from Disposal

MR Credit 2.2: Construction Waste Management, Divert 75% from Disposal

In areas where facilities exist, the following GCP – Applied Technologies Waterproofing and Air Barrier materials are recyclable and can contribute to earning Materials and Resources Credit 2.1 and Credit 2.2.

- | | | |
|-----------------|----------------|--------------|
| • Wooden Pallet | wood | 45 lbs |
| • Sheet core | cardboard | 3 lbs/core |
| • Carton | cardboard | 4 lbs/carton |
| • Pail | steel | 2 lbs/pail |
| • Pail | HDPE (plastic) | 2 lbs/pail |
| • Drum | steel | 29 lbs/drum |
| • Drum | fiber | 12 lbs/drum |

MR Credit 4.1: Recycled Content, 10%

MR Credit 4.2: Recycled Content, 20%

The recycled content of GCP – Applied Technologies Waterproofing and Air Barrier materials is as follows and can contribute to earning Materials and Resources Credit 4.1 and Credit 4.2. All other GCP – Applied Technologies Waterproofing and Air Barrier materials not listed below do not contain recycled content, 0% Post Consumer and 0% Post Industrial.

<u>GCP – Applied Technologies Product</u>	<u>Wt. Percent Post Industrial Recycled Content</u>	<u>Wt. Percent Post Consumer Recycled Content</u>
Hydroduct® 200	89%	0%
Hydroduct® 220	86%	0%
Hydroduct® 225	83%	0%
Hydroduct® 660	83%	0%
HydroCoil® 600	92%	0%
Hydroduct® 500	66%	0%
Hydroduct® 500 RS	63%	0%
Hydroduct® 550	75%	0%
Hydroduct® 550 RS	73%	0%

MR Credit 5.1: Regional Materials, 10% Extracted, Processed & Manufactured Regionally
MR Credit 5.2: Regional Materials, 20% Extracted, Processed & Manufactured Regionally

GCP – Applied Technologies Waterproofing and Air Barrier materials are manufactured in several locations in North America. If these locations fall within a 100-mile radius of the project site and the location the raw materials used to make the finished product are extracted, recovered or harvested within a 100-mile radius of the project, then these materials or a portion of the materials can contribute to earning Materials and Resources Credit 5.1 and Credit 5.2.

The following are the locations of the GCP – Applied Technologies Waterproofing and Air Barrier materials manufacturing plants:

<u>Plant Location</u>	<u>Product</u>
Bedford Park, IL	B2 primer, Vycor enV, Perm-A-Barrier VP, Perm-A-Barrier Liquid, Perm-A-Barrier VPO and Procor, Bituthene Liquid Membrane.
- Chicago, IL	Perm-A-Barrier VPL, Perm-A-Barrier NPL
Mount Pleasant, TN	Perm-A-Barrier NPS, Perm-Barrier Wall Membrane, Perm-A-Barrier Wall Flashing, Perm-A-Barrier Detail Membrane, Perm-A-Barrier Aluminum Wall Membrane, Perm-A-Barrier Aluminum Flashing, Bituthene (3000, 4000, etc.) materials Preprufe materials and Florprufe materials
- Newburyport, MA	Perm-A-Barrier VPS, Vycor enV-S, and Vycor Pro Flashing
Rockford, IL	Perm-A-Barrier VPS 20
Union County, NC	All Hydroduct materials
Fort Worth, TX	Adcor ES and Adcor ES Adhesive
Harleysville, PA	Grace S100 Sealant
Evanston, IL	Grace Ultra

Please contact your local GCP – Applied Technologies Representative to request a project specific letter pertaining to Credit 5.1 and Credit 5.2. The letter will provide the quantity of raw materials that are extracted, recovered or harvested within 100 miles of the project location.

MR Credit 6: Rapidly Renewable Materials

None of the GCP – Applied Technologies Waterproofing and Air Barrier materials are made from or contain any rapidly renewable materials.

MR Credit 7: Certified Wood

None of the GCP – Applied Technologies Waterproofing and Air Barrier materials are made from or contain any wood-based materials. MR Credit 7 is not applicable to GCP – Applied Technologies Waterproofing and Air Barrier materials.

EQ Credit 4.2: Low Emitting Materials, Paints & Coatings

EQ Credit 4.2 pertains to products that are to be used in the interior of a building. GCP – Applied Technologies Waterproofing and Air Barrier materials are applied onto the exterior of a structure and therefore would not contribute to this credit. However, GCP – Applied Technologies has provided the volatile organic content (VOC) of GCP – Applied Technologies Waterproofing and Air Barrier materials listed below.

<u>GCP – Applied Technologies Product</u>	<u>VOC Content g/L</u>
Perm-A-Barrier Liquid (Part A and B)	75 (as applied)
Perm-A-Barrier WB Primer	10
Perm-A-Barrier VP	20
Procor (all types)	75 (as applied)
Perm-A-Barrier Primer Plus	Less than 1
Perm-A-Barrier VPO	Less than 20
Perm-A-Barrier VPL	Less than 20
Perm-A-Barrier NPL 10	32
Grace S100 Sealant	98

Please feel free to contact me with any additional questions or information.

Sincerely,



John Dalton
GCP-Applied Technologies