

BASF
We create chemistry

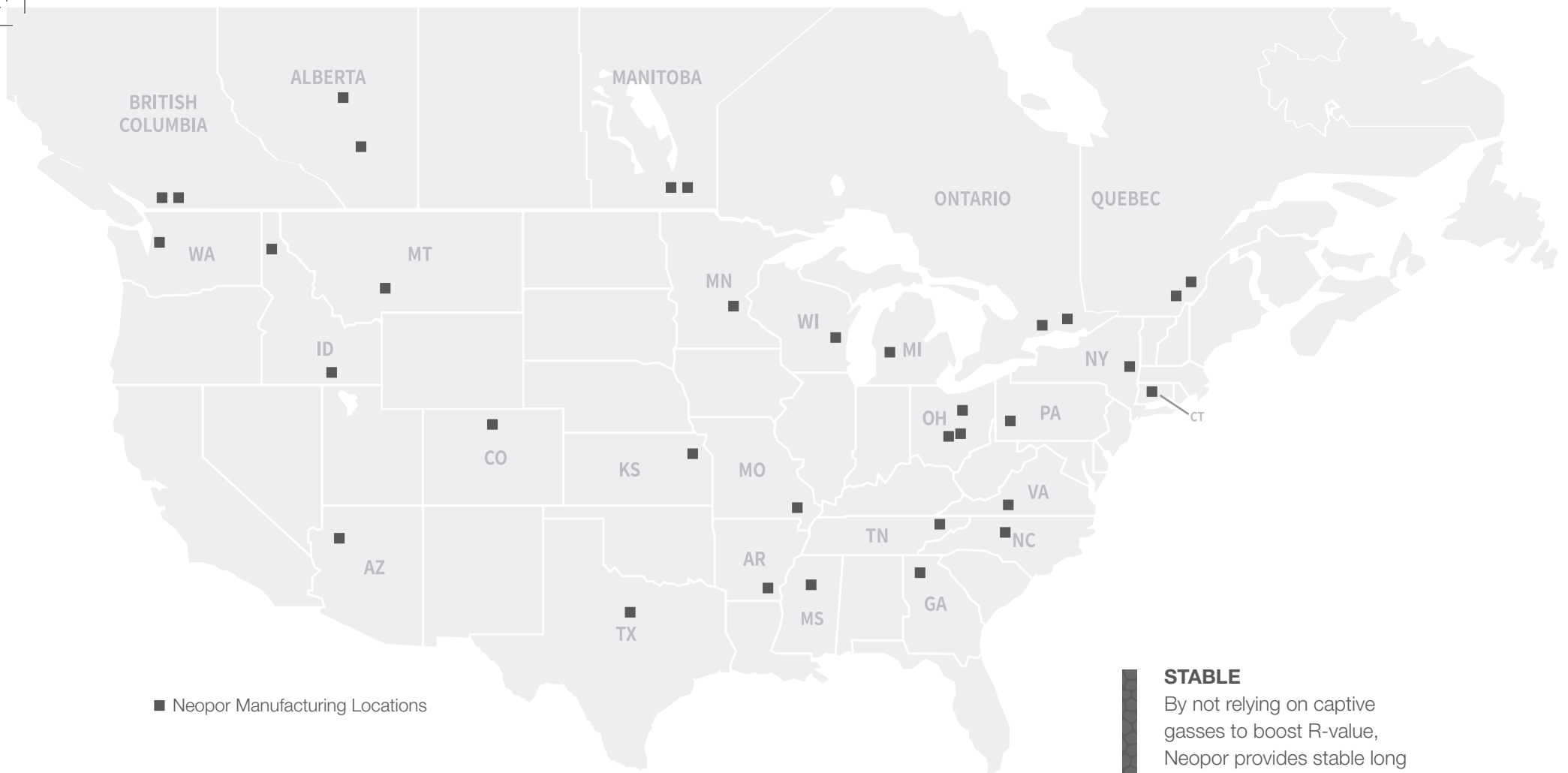
Neopor®

Neopor Rigid
Insulation in
Commercial
Construction



SUSTAINABILITY YOU CAN BUILD ON.

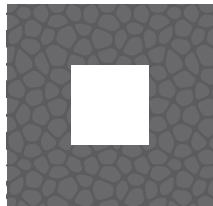
[Neopor-Insulation.com/commercial](https://www.neopor-insulation.com/commercial)



■ Neopor Manufacturing Locations

GET TO KNOW NEOPOR® GPS

BASF Neopor GPS is a graphite polystyrene (GPS) rigid foam insulation that delivers maximum efficiency, cost-effectiveness and sustainability for your commercial construction projects.



ECOLOGICAL

Neopor is a low-carbon GreenGuard Gold certified and high-performing insulation with a product-specific EPD and transparency documentation.

ECONOMICAL

Per nominal inch, it can deliver the same R-value as XPS using up to 30% less raw material.

FLEXIBLE

Neopor insulation can be used for Cavity Wall, Perimeter, Roof, EIFS, Stucco and more.

STABLE

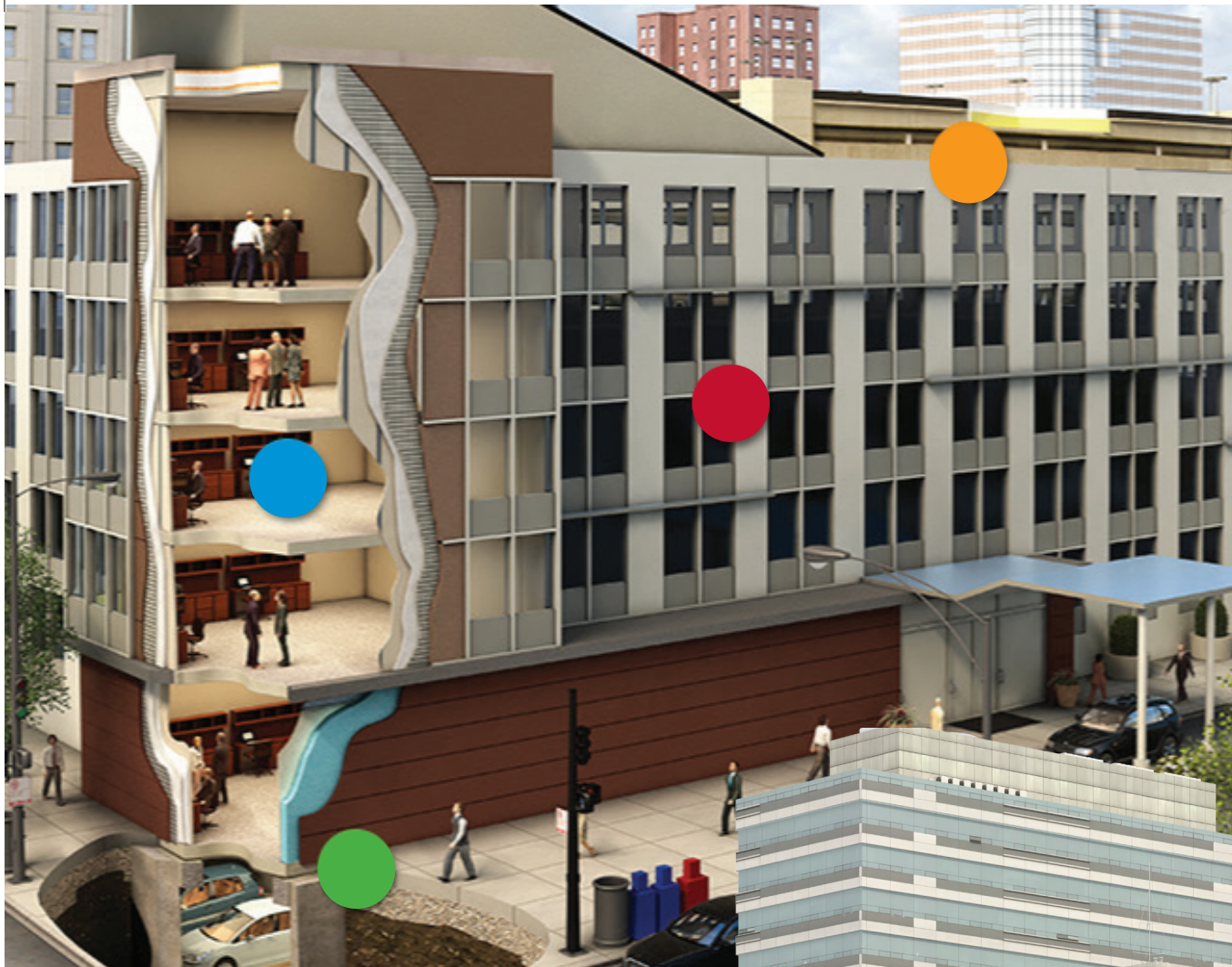
By not relying on captive gasses to boost R-value, Neopor provides stable long term thermal resistance.

RESISTANT

Neopor has low water absorption while remaining vapor-open.

AVAILABLE

Neopor GPS is manufactured nationwide through our authorized network ensuring local supply. (see map)



APPLICATIONS & FEATURES

● ROOFING

- UL Assemblies and system compliance
- Low-carbon option for Green Roofing
- Low water absorption / high drying

● CAVITY WALL

- NFPA 285 approved assemblies
- UL Rated Assembly options

● EIFS

- Approved with system suppliers

● PRECAST

- Board surface is ready for precast bond
- No additional preparation is required

● PERIMETER

- Low water absorption
- High drying capacity
- Low-carbon option to replace XPS

● UNDERSLAB

- Low water absorption
- High drying capacity
- Low-carbon option to replace XPS



SUSTAINABILITY YOU CAN BUILD ON

You can't put a price on the importance of more sustainable building solutions. Neopor® GPS makes the choice easy as a high-performing, low-cost option.

When comparing competitive materials, Neopor can achieve the same R-Value with up to 30% fewer raw materials. This not only makes Neopor more sustainable, but often helps it become the cost-effective choice as well. Like all insulation, Neopor helps buildings achieve reductions in operational carbon by reducing the need to heat and cool the building. The Neopor difference comes with its industry-low carbon footprint, which also contributes to reducing a building's embodied carbon.

As demonstrated in the EC3 Tool, Neopor has the lowest carbon footprint of any rigid insulation available in North America, and is GreenGuard Gold certified.

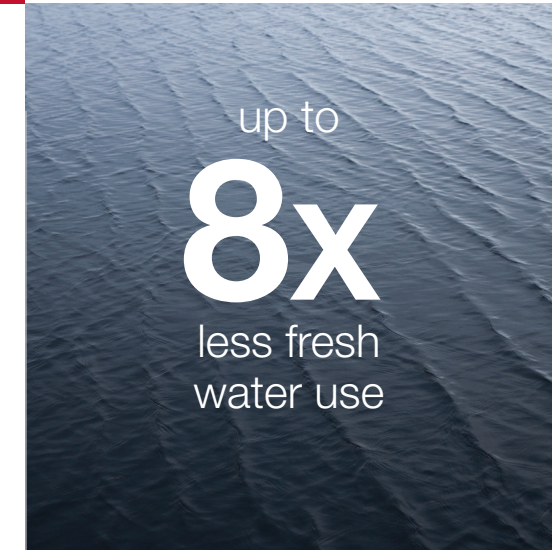
GREENGUARD Gold Certified for indoor air quality Neopor Plus GPS has achieved GREENGUARD Gold Certification by UL Environment for products with low chemical emissions based on UL2818, GREENGUARD Certification Program for Chemical Emissions for Building Materials.



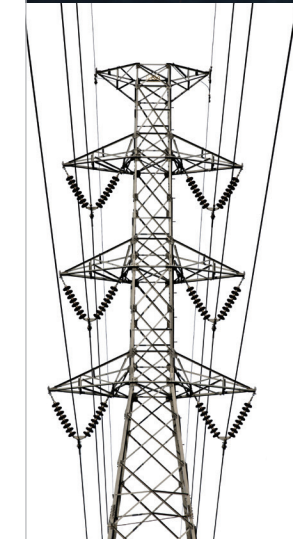
LESS IS MORE

up to
50x
less carbon footprint

up to
10x
less material mass



up to
8x
less fresh water use



up to
2x
less energy use



Project photo courtesy of Logix®

MAKING THE CASE TO REPLACE



FOR EVERY 100,000 SQFT OF R10 XPS REPLACED WITH NEOPOR:

Fresh Water Savings

- Avoid using up to 195,400 gallons of fresh water or enough to fill over 1.2 million 20 oz water bottles

Percent Savings:

- Fresh Water: 87.1%
- Weight: 44.3%
- Energy: 35.9%
- CO2: 96.8%



Weight Savings

- Avoid up to 12,400 pounds of extra mass, or the approximate weight of 1 elephant



Energy Savings

- Avoid using enough extra energy for up to 13 US households' electricity consumption for 1 year



CO2 Savings

- Avoid emitting enough CO2 equal to 195 passenger vehicles driven for 1 year (average U.S. drivers)
- Avoid emitting enough CO2 equal to 2,248,250 miles driven by an average U.S. passenger vehicle
- Avoid emitting enough CO2 sequestered by 1,082 acres of U.S. forests in 1 year



FOR EVERY 100,000 SQFT OF R20 POLYISO REPLACED WITH NEOPOR:

Fresh Water Savings

- Avoid using up to 209,700 gallons of fresh water or enough to fill over 1.3 million 20 oz water bottles

Percent Savings:

- Fresh Water: 78.3%
- Weight: 59.9%
- Energy: 29.0%
- CO2: 56.4%



Weight Savings

- Avoid extra material mass equal to 3.59 adult African elephants



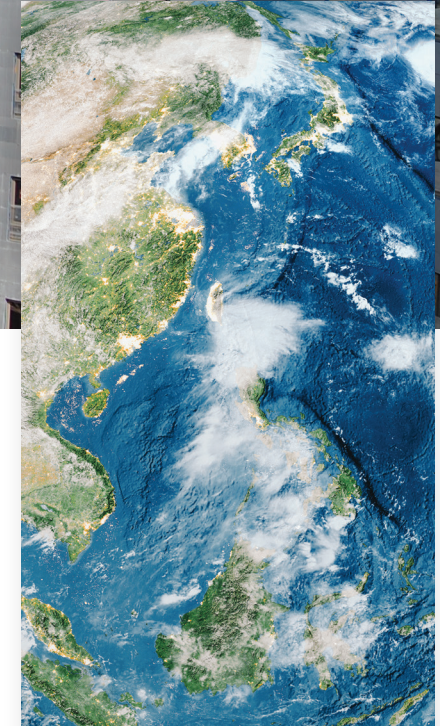
Energy Savings

- Avoid using enough extra energy for 19 US households' electricity consumption for 1 year



CO2 Savings

- Avoid emitting enough CO2 equal to 17 passenger vehicles driven for 1 year (average U.S. drivers)
- Avoid emitting enough CO2 equal to 193,500 miles driven by an average U.S. passenger vehicle
- Avoid emitting enough CO2 sequestered by 93 acres of U.S. forests in 1 year



Neopor Demonstrates Low Global Warming Potential. (GWP)

Improve your carbon footprint with Neopor® solutions from BASF.

*See back page for further explanation on environmental comparisons.



Neopor Plus GPS rigid foam is today's energy-efficient and cost-effective insulation solution for architects, builders and contractors.

Property	Unit	Neopor Plus GPS					
		Type XI	Type I	Type VIII	Type II	Type II+	Type IX
ASTM C578 Classification							
Compressive Resistance	at yield of 10% deformation in psi (min)	5.0	10.0	13.0	15.0	20.0	25.0
Thermal Resistance (R-value)	°F · ft² · h/BTU (°C · m² /W) at 75°F	4.6	4.7	4.7	4.7	4.7	4.7
	°F · ft² · h/BTU (°C · m² /W) at 40°F	4.9	5.0	5.0	5.0	5.0	5.0
Insulation Mass/Density	lbs/ft³ (min*)	0.70	0.90	1.15	1.35	1.45	1.80
Water Vapor Permeance	Max perm (ng/Pa · s · m²)	5.0	4.0	3.1	3.1	3.1	2.5
Water Absorption by Total Immersion	Max volume % absorbed	1.1	1.1	1.1	1.1	1.1	1.1
Freeze/Thaw Moisture Retention <small>*after drying period</small>	% of R-value retained	99.9%					
Flame Spread	Index	5					
Smoke Development	Index	25					

Please Note:

R means resistance to heat flow. The higher the R-value, the greater the insulating power. Ask your representative for the fact sheet on R-values. The technical and physical metrics provided in this table are reference values for insulation products made of Neopor Plus GPS. The values and properties may vary depending on how they are processed and produced. The R-value properties are based on 1in thickness. Water absorption rates typical when tested according to C272.

* The lower lbs/ft³, the less carbon used, equating to a lower carbon footprint impact.



NEOPOR SPECIFICATION RESOURCES AVAILABLE:

- MasterFormat Numbers:
 - BSD/RIB Speclink
 - Masterspec link
 - 3-part Specification
 - Substitution Packet

SUSTAINABILITY YOU CAN BUILD ON

www.neopor.basf.us/commercial

NEOPOR 3-PART SPEC

Correctly specify Graphite Polystyrene and BASF Neopor by reviewing our three part specification for Division 7, found in BSD/RIB Speclink and Masterspec.



EMBODIED CARBON

With an industry leading low embodied carbon figure, Neopor reduces both operational and embodied carbon emissions in most projects. Learn more about carbon emissions by taking our 1HSW AIA accredited continuing education course or compare Neopor with competitors in the EC3 Tool.

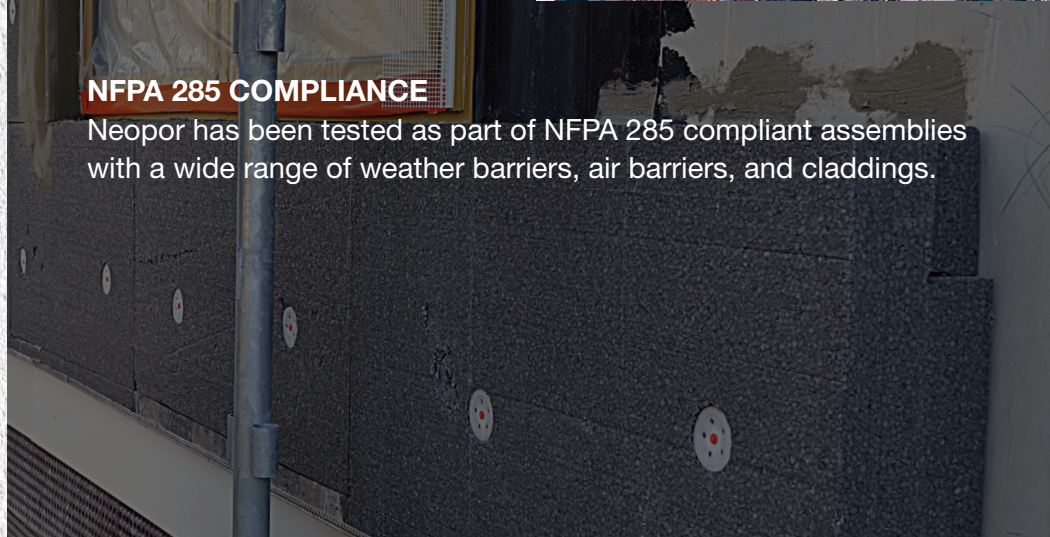


NEOPOR IN WALL SYSTEMS:

EIFS and Stucco system suppliers offer their systems insulated with Neopor GPS to deliver higher thermal performance or to reduce the overall wall thickness.

NFPA 285 COMPLIANCE

Neopor has been tested as part of NFPA 285 compliant assemblies with a wide range of weather barriers, air barriers, and claddings.



BIM CONTENT

Download our Revit-based BIM objects to help keep your project coordinated and accurate.



TRANSPARENCY DOCUMENTATION

Access a product specific EPD, HPD, GreenGuard Gold Certificate, Living Building Challenge declaration, and other transparency documentation for Neopor.



UL RATED ASSEMBLIES

Find the wide range of UL assemblies that list Neopor as an option for exterior insulation in both wall and roofing applications.



QUALIFIED FOR USE IN ROOFING INSULATION

As part of a UL Classified Class A, B or C roof-covering assembly in accordance with UL 790, and as part of a UL Classified Roof Deck Construction in accordance with UL 1256.





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Important Note: While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. As environmental product declarations from different programs may not be comparable (refer to CAN/CSA-ISO 14025), the comparisons are made for illustrative purposes only and are based upon all reported life cycle stages of the compared impact categories from available environmental product declarations. The complete environmental product declarations highlighted can be found at neopor.basf.us/epd. Because many factors may affect processing or application/use, BASF recommends that the reader make tests to determine the suitability of a product for a particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESCRIPTIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. In no case shall the descriptions, information, data or designs provided be considered a part of BASF's terms and conditions of sale. Further, the descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, all such being given and accepted at the reader's risk. Neopor® is a trademark of BASF SE. ICC-ES is a registered trademark of ICC-ES. UL® and GREENGUARD are registered trademarks of UL LLC. QAI is a trademark of QAI Laboratories. NFRC is a registered trademark of the National Fenestration Rating Council. LEED® is a registered trademark of the U.S. Green Building Council®. © BASF Corporation, 2023 Neopor® U.S.A.