

# **LEED® Ratings System and PROSOCO's Cleaners, Sealers & Coatings**

## ***Applying LEED to PROSOCO's Exterior and Interior Use Products***

by: Dwayne Fuhlhage, PROSOCO Regulatory Affairs Director

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The U.S. Green Building Council (USGBC) LEED green building rating system provides a useful tool for creating high performance assemblies and buildings. The LEED ratings system contains mandatory and optional credit categories as a metric to rate the relative design, performance and operation of a green building. Some LEED credit categories apply generically to all building components. Some credits are specific to certain assemblies or products.

PROSOCO manufactures interior sealers, coatings and air and water resistive barrier products that can contribute to LEED credits. PROSOCO also manufactures cleaners and exterior coatings that can contribute to generic or universal credits but are not included in specific LEED credit categories.

This guide provides general information on how PROSOCO products can contribute to LEED credits and includes a *PROSOCO Product LEED® Credit and Code Conformance Cross-Reference* chart for coating and adhesive products. Additional information and individual conformance certifications are located at [www.prosoco.com](http://www.prosoco.com) and [www.consolideck.com](http://www.consolideck.com).

### **LEED Credits for Locally Produced and Recycled Materials (MR Credit 4 & 5)**

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LEED includes some universal credits that cover every material utilized in a certified building's construction. The most common universal credits are for distance from the point of manufacture to the site (MR Credit 5; Regional Materials) and the inclusion of recycled materials (MR Credit 4; Recycled Content).

For purposes of determining MR Credit 5 conformance, with limited exceptions all cleaning and coating products are manufactured at our production facility in Lawrence, Kansas. R-GUARD coatings are manufactured in the town of Rutland, Vermont. R-GUARD sealants are manufactured in Waconia, Minnesota. BMC II is manufactured in Kansas City, Missouri. PROSOCO's products may contribute to LEED credit if a project is located within 500 miles of the point of manufacture.

PROSOCO's coating and sealant products are manufactured from virgin materials to assure quality and consistent performance. This is also true of its unit masonry cleaners. By contrast, generic acids are often industrial byproducts with unwanted residual contamination. As an example, generic muriatic acid typically originates in steel pickling operations where it picks up various heavy metal residues. PROSOCO's unit masonry cleaners utilize food grade hydrochloric acid and high quality surfactants to minimize damage to the substrate and allow for easy neutralization to innocuous salts during and after cleaning.

The use of virgin materials means there is no recycled content as defined in MR Credit 4; however, the building owner is assured of consistent appearance and maximum performance without damage to the substrate. PROSOCO's goal is to provide quality components of sustainable concrete and masonry building assemblies that help maximize their effective life.

### **LEED and Exterior Use Products**

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LEED contains no specific credits for exterior concrete or masonry cleaners, sealers or coatings. This means that PROSOCO products used or applied on a building exterior cannot contribute to or detract from gaining LEED credits other than the universal credits mentioned above. There is no appropriate LEED criterion to rate attributes of exterior cleaning products.

Some building designers prefer to apply the LEED interior coatings criteria to exterior applications. The primary LEED criteria for interior coatings is compliance with ozone forming VOC limits found in the South Coast Air Quality Management District (SCAQMD) Rule 1113 in effect on January 1, 2004. While this practice will not assist in gaining credits, PROSOCO manufactures a wide variety of coatings that comply with the referenced standard.

## **LEED and Coatings for Energy Savings and Humidity Control**

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LEED focuses heavily on improving the energy efficiency of and occupant comfort in certified buildings. Designed for cavity wall and secondary waterproofing plane application, the air and water resistive barrier coatings in the R-GUARD systems can contribute to related credits. The TRANE Trace 700 software for LEED energy modeling will show a significant ASHRAE 90.1 energy savings that will contribute toward obtaining the points available under the energy category. A Mechanical Engineer specializing in LEED projects has recommended to PROSOCO that points for use of PROSOCO R-GUARD® be sought under Environmental Quality Credit 7.1 “Thermal Comfort: Design” which requires control of humidity in accordance with ASHRAE Standard 55-2004.

PROSOCO’s Consolideck® concrete floor system can play a role in lighting efficiency for the floor assembly. The Consolideck® line includes combination dust proofer/densification products as well as decorative stains and protective clear top coats. These products facilitate creation of aesthetically pleasing high durability, low-maintenance finished concrete floors without addition of floor coverings that eventually must be replaced. Designers can combine color and gloss to increase reflectance and reduce lighting and energy needs. The system is compatible with in-floor radiant heating systems. Additional information on the environmental and safety attributes of Consolideck® products may be found at [www.consolideck.com](http://www.consolideck.com).

## **LEED V2 and Interior Use Products (EQ Credit 4.2)**

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LEED includes credit categories designed to assure indoor air quality (IAQ) for building occupants. Architectural coatings and treatments applied to building interiors are covered by EQ Credit 4.2; Low Emitting Materials-Paints and Coatings. With the exception of LEED for Schools, this credit references SCAQMD Rule 1113 in effect on January 1, 2004.

While the LEED standard lists only a limited range of coatings categories, the *New Construction and Major Renovation Version 2.2 Reference Guide* incorporates all SCAQMD Rule 1113 coatings categories by reference. This includes PROSOCO’s industrial maintenance, waterproofing concrete/masonry sealer and low solids category products.

Eligibility for IAQ credit in LEED for Schools™ requires conformance to the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda. More commonly known as Specification 01350, this standard practice requires independent laboratory testing of coating and substrate combinations in atmospheric chambers that model typical building conditions. A variety of Consolideck® coatings and decorative stains have been tested to this criterion. In addition, PROSOCO has enlisted Scientific Certification Systems (SCS) as an independent third-party certifier to verify testing methodologies and manufacturing processes. SCS certified products carry the Indoor Advantage Gold certification logo and mark.

Interior use cleaning products generally do not contribute or detract from LEED credits except in limited applications for LEED Platinum level buildings and within the LEED for Existing Buildings: O&M™ ratings system.

## **LEED V3 and Interior Use Products (IEQ Credits 4.2 & 4.2)**

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LEED V3 IAQ criteria are substantially similar to those in LEED V2. However, some interior product use credits have been realigned. Coatings for walls, ceilings and trim are covered by IEQ Credit 4.2 Low Emitting Materials-Paints and Coatings. The USGBC expanded the scope IEQ Credit 4.3 Low-Emitting Materials-Flooring Systems to include concrete floor finishes.

Specification 01350 testing is required to achieve either credit in the Schools rating system. School projects can gain up to 4 points by utilization of these and other IEQ Credit options.

As with LEED V2, LEED V3 only applies to interior use cleaning products in limited circumstances.

## PROSOCO's Commitment

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PROSOCO is committed to providing accurate information on the attributes of its products and expert assistance in green and sustainable building endeavors. Our staff includes a LEED AP and a LEED Green Associate ready to assist with technical credit inquiries. Our regulatory department is directly engaged in VOC regulatory development activities and associated green building codes and standards at the local, state and federal level. PROSOCO is a proud member of the American Coating Associations' Coatings Care and the Consumer Specialty Product Association's Product Care product stewardship initiatives.

## MISSION STATEMENT

*PROSOCO strives to be the industry leader by developing innovative solutions for customers devoted to improving the appearance and performance of the built environment.*

### Disclaimer

This document has been prepared by for use primarily by PROSOCO, Inc. product specifiers and applicators. THE INFORMATION IS OFFERED IN GOOD FAITH AND BELIEVED TO BE RELIABLE, BUT IS MADE WITHOUT WARRANTY, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER. Users are cautioned that the regulations, standards and interpretations on which this document is based are subject to change, which may invalidate any or all of the comments contained herein.

**PROSOCO, Inc.**  
3741 Greenway Circle  
Lawrence, KS 66046

1-800-255-4255  
[www.prosoco.com](http://www.prosoco.com)  
[www.consolideck.com](http://www.consolideck.com)



PROSOCO is a proud member and supporter of ACA's Coatings Care and CSPA's Product Care product stewardship initiatives.



"LEED" is a trademark of the U.S. Green Building Council

# PROSOCO Coating and Sealant Product LEED® Credit and Code Conformance Cross-Reference

LEED Credit* and Code Conformance with Technical Criteria												
Product Tradename	VOC Content (g/L)	Rule 1113 (2004)	Rule 1168	LEED IEQ CR 4.2	LEED IEQ CR 4.3	Section 01350	LEED for Schools	SCS Certified	LEED EA CR 1	LEED EA CR 7.1	NSF Registered	CalGreen (2011)
Sure Klean® Weather Seal Weather Seal GP	8	X		X								X
Sure Klean® Weather Seal Siloxane WB Concentrate	16-41	X		X	X							X
Sure Klean® Weather Seal Siloxane PD	25	X		X	X							X
Sure Klean® Weather Seal Natural Stone Treatment WB	1	X		X	X							X
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II	14	X		X								X
Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra	99	X		X								X
Sure Klean® Strippable Masking	5	X		X								X
Sure Klean® Ground Face Block Enhancer WB	78	X		X								X
Sure Klean® Burnished Block Sealer	57	X		X								x
Stand Off® Stone, Tile & Masonry Protector (STMP)	7	X		X	X							X
Stand Off® Stain Barrier	5	X		X	X							X
Stand Off® Gloss N' Guard WB	78	X		X	X							X
Stand Off® Color Enhancer WB	34	X		X	X							X
Stand Off® SLX100® Water & Oil Repellent	377	Note 1.		X	X							
Defacer Eraser® Sacrificial Coating SC-1	25	X		X								X
Consolideck® Color Enhancer WB	34	X		X	X							X
Consolideck® ColorHard (colorant mixed with Consolideck LS)	74	Note 2.		X	X			X				X
Consolideck® GemTone Stain (field diluted)	85	X		X	X	X	X	X				X
Consolideck® Saltguard® WB	37	X		X	X							X
Consolideck® LS Guard®	95	X		X	X	X	X	X			X	X
Consolideck® LS/CS®	7	X		X	X	X	X	X			X	X
Consolideck® LS®	20	X		X	X	X	x	X			X	X
Consolideck® SL100 Water Repellent	330	Note 1.		X	X							X
Consolideck® SLX100® Water & Oil Repellent	377	Note 1.		X	X							
Consolideck® GemTone ColorCoat (all colors)	<250	Note 1.		X	X							X
Consolideck® SafetyColor (all colors)	<120	Note 1.		X	X							X

\* This chart indicates product conformance with LEED credit criteria. Products are not reviewed or certified under LEED. LEED Credit requirements cover the performance of materials in aggregate not the performance of individual products or brands. For more information on LEED, visit [www.usgbc.org/leed](http://www.usgbc.org/leed).

**Notes:**

1. While LEED EQ Credit conformant based on 2004 VOC limits, certain products are unavailable in the South Coast AQMD due to current regulations.
2. Colorants are not regulated by Rule 1113. ColorHard colorant combined with Consolideck LS as a tint base is still low-VOC and SCS Indoor Advantage Gold certified.

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BMC® Breathable Masonry Coating II (all tint bases)	<240	Note 1.		X								
Paver Kare® Penetrating Water Repellent	40	X		X	X							X
Paver Kare® Paver Enhancer WB	34	X		X	X							X
Paver Kare® Deep Sheen WB	78	X		X	X							X
R-GUARD VB	<100	X		X				X	X			X
R-GUARD MVP	<100	X		X				X	X			X
R-GUARD Spray Wrap	28	X		X				X	X			X
R-GUARD Joint & Seam Filler	<30		X	X				X	X			X
R-GUARD Gyp Prime	99		X	X				X	X			X
R-GUARD Fill	75	X		X				X	X			X
R-GUARD Fast Flash™	27		X	X				X	X			X
R-GUARD Air Dam	17		X	X				X	X			X
R-GUARD Cat5	<30		X	X				X	X			X

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## Reference Documents and Sources:

Rule 1113: South Coast Air Quality Management District Rule 1113; Architectural Coatings

Rule 1168: South Coast Air Quality Management District Rule 1168; Adhesive and Sealant Applications

SCS Certified: [www.scs-certified.com](http://www.scs-certified.com)

NSF Registered: [www.nsfwhitebook.org](http://www.nsfwhitebook.org)

CalGreen: 2010 California Green Building Standards Code - Regulates interior use products in commercial construction effective 2011.