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## **Technical Service Bulletin No. S-05-02**

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### **Tremco Green Roof Systems and Vulkem Deck Coating Systems**

#### **LEED™, Building Green and Tremco**

In the last several years, The United States Green Building Council (USGBC) has been rather successful in influencing governmental, educational, and corporate organizations to adopt the Leadership in Energy and Environmental (LEED™) system. Thus, LEED, a point and credit system for designing green and measuring how green a structure is, has become a major factor in how we market and design products for the building industry.

While there are very few products that can guarantee instant points/credits per the LEED system, two Tremco products, Tremco Green Roof Systems and high reflectivity (white) Vulkem Deck Coatings, can, in and of themselves, yield a building owner instant points. This, combined with additional credits the owner may obtain thanks to the green roof and/or the deck coating, make these products a “must have” for not only LEED sense, but economic and ecological sense as well.

#### **Tremco Green Roof:**

By installing a Tremco Green Roof System, a building owner is not only being environmentally conscious, but is also instantly earning credits/points on a LEED project. First, two points are earned under the reduction of the Urban Heat Island Effect- Roofing credit. By using a green roof as the top deck of a parking structure, another instant point can be earned for reducing the Urban Heat Island Effect- Non-Roof. Additionally, two more points are attained instantly for Storm Water Management. As green roofs reduce run-off and reduce suspended solids. Green roofs also act as a means of Reducing Site Disturbance, and thus if used over an entire roof, will quite likely yield another instant point for redeveloping green space. Thus, five points, nearly 20% of the amount needed to attain LEED Certification, can be instantaneous when building a green roof.

Additional points may not be instantaneous, but the green roof can help win them with ease. First, because of the reduction in heat build-up on the roof, coupled with the high insulating factor of a green roof, it is possible to earn as many as 10 points for the reduction in HVAC load, covered in LEED by Optimized Energy Performance (though 1-3 points is most likely just because of a green roof). Additionally, if the plants are drought tolerant (as they should be for a roof top), then they would require little or no irrigation, which makes the landscape Water Efficient, which can be worth as many as two points. Thus, a Tremco Green Roof can contribute at least three more points toward LEED Certification.

#### **Vulkem Deck Coatings:**

Vulkem Deck Coatings in white have been shown to be Energy Star™ compliant as high reflectivity coating systems. What does this mean to the LEED project planner? It means more instant points. By using Vulkem Coatings in white on at least 50% of parking and walkway surfaces, one point is instantly earned. Additionally, using these on a roof in combination with a green roof system or on a plaza/terrace area can yield an instant point. Further, because Vulkem Deck Coatings used on roofs and terraces help reduce HVAC loads by curbing absorbed heat quantities, these products can greatly aid in points in Energy Optimization much like a green roof would.

In all, Tremco Green Roof Systems and Vulkem Deck Coatings make sense for any green building project. Because they can potentially earn a building owner more than 30% of the points needed for LEED Certification, and because they are both economically and environmentally beneficial, the Tremco Green Roof Systems and Vulkem Deck Coatings are the green choice.