

National Renewable Energies Laboratory Golden, CO



Contractor: Haselden Construction

Design/Build: RNL Design

Size: 218,000 Sq. Ft.

Achievements: LEED Platinum

US SPEC Products: Ezkote Green, Maxcure Resin Clear

Haselden Construction has started construction on the \$64 million Research Support Facilities (RSF) located on the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) campus in Golden, Colorado.

NREL is the nation's primary laboratory for renewable energy and energy efficiency research and development. Their existing campus contains ten research facilities including the Science and Technology Facility completed in 2007 which was only the 29th building in the world to be awarded LEED Platinum status.

This RSF building, scheduled for completion in 2010, is also expected to meet the U.S. Green Building Council's LEED Platinum rating, the highest distinction given by the council for high performance green buildings. In addition, the building is being designed with the intention of becoming a Zero Energy Building as defined by NREL.

The RSF promises to become a prototype for future highly efficient U.S. office buildings. While the latest energy-efficient technologies are being incorporated into design and construction, the cost of this building is in line with traditional office construction.

In addition to the many energy efficient features, Haselden chose building materials that would help earn LEED points in several categories. Two of these products are US SPEC Ezkote Green and US SPEC Maxcure Resin Clear.



Ezkote Green contributed to LEED points in three categories: IEQ 4.2 for Low Emitting Materials, MR Credit 6 for Rapidly Renewable Materials, and MR Credit 5.1 for Regional Materials because Ezkote Green is manufactured and harvested within a 500 mile radius of the project site. Ezkote Green is a non-petroleum, biodegradable form release. It performs just like the petroleum based products of the past, but contains zero VOCs so there are no negative side effects associated with petroleum based products.

Maxcure Resin Clear contributed to LEED points in two categories: IEQ 4.2 for Low Emitting Materials and MR Credit 5.1 for Regional Materials. Maxcure Resin Clear is a dissipating resin membrane forming curing compound. It forms a membrane over the surface of freshly finished concrete to keep moisture in the concrete and allow for proper hydration of the cement and helping the concrete reach its mix design performance. This product will break down over time, which was important to this project to allow easier cleaning and removal so future floor coverings could bond to the concrete substrate and not a membrane. This is a low VOC product which allows for easy interior use and will not leave behind strong odors or fumes.

US SPEC PRODUCTS

Ezkote Green

Multi-Use, Non Petroleum Reactive Form Release

US SPEC Ezkote Green is a biodegradable, zero VOC, low odor form release. **Ezkote Green** provides a quick, easy and clean release of concrete from formwork including wood, BB plyform, aluminum, plastic and steel. It leave concrete free of voids and defects. For metal forms, it reduces maintenance by forming a protective, rustproof film. This product increases the life span of wood forms by waterproofing and protecting. Because **Ezkote Green** provides an excellent coverage rate and cuts stripping time, it is also an economical choice.

Maxcure Resin Clear

Water-Emulsion, Dissipating Resin Curing Compound

Maxcure Resin Clear is a VOC compliant, concrete curing compound. It is formulated to form a membrane film on the surface of concrete that optimizes water retention for maximum concrete hydration and compressive strength. **Maxcure Resin Clear** dries to a clear film designed to dissipate and wear away when exposed to heat, traffic and ultra violet radiation. Also available in a white formula that increases reflectance properties thereby reducing surface temperature and minimizing vapor pressure and moisture loss.