

Surface IQ and the Environment

Surface IQ is the most significant wallcovering technology in more than 50 years. Built from the polymer on up, it offers outstanding performance while eliminating the vices of vinyl wallcovering: chlorine, plasticizers, heavy metals, formaldehyde and dioxin.

MANUFACTURING

TPO Technology

Surface IQ is built on Thermoplastic Olefin Technology(TPO). Derived from ethylene, a component of natural gas, it has unique strength and performance properties. Its production requires one third less energy than PVC film.

By not using PVC, the potential dangers in manufacturing chlorine based products are eliminated.

Plasticizers Free

No Plasticizers are needed or used in the manufacturing of Surface IQ. The exclusion of phthalate plasticizers, which are necessary to make vinyl wallcoverings flexible, makes Surface IQ dramatically safer than vinyl.

Chlorine Free

All inks and coatings in Surface IQ are water based. No vinyl resins; chlorine free.

Heavy Metals Free

No heavy metals are used in any component of Surface IQ, so the product can be safely landfilled or incinerated.

Formaldehyde Free

Halogen Free

Surface IQ achieves a Class A fire rating without halogenated flame retardant additives.



EXECUTIVE HEADQUARTERS
110 North Centre Avenue
Rockville Centre, New York 11570
T - (800)727-6770 • T - (516)678-6770 • F - (516)678-6875

IN USE

Anti-Microbial Additives

An effective additive free of arsenic is used in Surface IQ. Passes ASTM G-21 and G-22 tests for resistance to mold and bacteria growth.

Indoor Air Quality

Surface IQ Wallcoverings have been subjected to emission testing for exposure limits under State of California Special Environmental Requirement 01350. The product was tested under the full 96 hour protocol measuring emissions rates for each of the chemicals on the California Office of Environmental Health Hazard Assessment Chronic Reference Exposure Limits. Surface IQ received a pass rating for all tested chemicals.

DISPOSAL

Landfill or Incineration

Because harmful components have been engineered out of Surface IQ wallcoverings the product may be disposed of at its end of life by incineration or landfill. Because they are derived from natural gas they possess a significant stored energy value. Our research indicates this energy value to be approximately 19,000 BTUH (British Thermal Units/Hour) per pound – slightly less than that of fuel oil but much higher than coal. Surface IQ would be accepted for energy recovery at a waste to energy (WTE) facility.

The combustion by-products of Surface IQ are water vapor, CO₂ and CO – cleaner than the combustion by-products of wood or coal. Today there are 102+ WTE plants in 32 states in the U.S. generating more than 2,800 megawatts of electricity per day. This is enough electricity to power 2.4 million homes and factories and replaces approximately 30 million barrels of oil annually (www.swana.org)



EXECUTIVE HEADQUARTERS
110 North Centre Avenue
Rockville Centre, New York 11570
T - (800)727-6770 • T - (516)678-6770 • F - (516)678-6875

THIRD PARTY CERTIFICATIONS

- In addition to California 01350, Surface IQ achieved MBDC Cradle to Cradle Silver certification, GreenSpec Listed, and earned CHPS certification to meet the CHPS Low-Emitting Materials criteria-Section 01350-for use in a typical classroom. Please go to this web address for the latest updates –carnegiesurfaceiq.com
- LEED Rating System – The use of Surface IQ will earn LEED rating points for Indoor Air Quality.

ENVIRONMENTAL HIGHLIGHTS

- Clean TPO polymer technology
- PVC, plasticizer, heavy metal free
- Class A Fire Rating
- Meets California 01350 Indoor Air Quality Standards
- Qualifies for LEED Indoor Air Quality credits
- All inks and coatings are water based, PVC free
- Halogen-free flame retardants
- Anti-microbial – without use of arsenic
- End of Life – can be converted to clean BTU's or safely landfilled