

## **Environite™ Solid Surface Material Product Description & Technical Data**

### **Description:**

An engineered solid surface material containing up to 90% recycled post industrial and post consumer materials in an ecologically friendly epoxy binder. Surface durability meets or exceeds most natural and engineered stone products and all cement based products.

Environite™ Solid Surface materials are used for:

- Countertops and Backsplashes
- Tub and Shower Enclosures
- Table & Desk Tops
- Toilet Privacy Partitions.
- Service & Reception Counters
- Fireplace Mantels and Surrounds
- Interior Wall Cladding

Environite™ Solid Surface material exhibit superior strength, non-porosity, durability and stain resistance to most other solid surfaces and is available in a proprietary “manufactured to size” process that is virtually unlimited.

### **Unparalleled Performance**

- Scratch resistant
- Will not support mildew or mold growth
- Durable
- Stain Resistant
- Heat Resistant
- Resistant to many chemicals and solvents.

### **Composition**

Environite™ Solid Surface material is custom cast from crushed glass (amorphous silica), epoxy and other proprietary materials to the specific design of the required piece thereby virtually eliminating all waste in material, transportation and fabrication that is inherent to almost all “slab materials”. In addition, edge details are part of the casting process thus eliminating unsightly edge seams.

### **Color & Sizes**

Environite™ Solid Surface materials have sixteen standard colors with an almost unlimited ability to do custom colors in relatively small quantities where others ask for minimum quantities of up to and in excess of 5,000 square feet to do a simple color match.

Sizes and shapes are typically limited by what you can handle and get in the door! It is not uncommon to see curved Environite™ counters over twenty feet in length with no seams.

### Finishes

Standard finishes are available from honed to full gloss and can be finished on both sides.

Standard Nominal Thicknesses are .5" .75" 1.0" 1.25"

Weight: .5" = 5.9lb per sq.ft .75" = 8.9lb per sq.ft 1" = 11.80 per sq.ft 1.25" = 14.8lb per sq.ft

Custom shapes thickness and structurally engineered components are available on request.

### Limitations

Environite™ Solid Surface Material is recommended for interior use only

### Heat Tolerance

Occasional and brief exposure to temperatures up to 400F can be tolerated. Trivets and hot pads should always be used.

### Acids

Environite™ will not be affected by most solutions of common acids including sulfuric and hydrochloric. Nitric and hydrofluoric acids may cause staining and/or chemical reaction(s).

### Solvents

Resists a broad range of common commercial and industrial solvents such as acetone, mineral spirits lacquer thinner, Isopropyl alcohol and methyl ethyl ketone.

### Stain Resistance

Environite™ has been tested to common staining agents including red wine, balsamic vinegar, mustard, ketchup, citrus juices, grape juice and many other food based agents with no staining evident. Even Magic Market and Crayon can be removed.

### Porosity

Environite™ Solid Surface materials are impervious to water and air and have been tested to a level of one atmospheric pressure for forty-eight hours with no penetration of affect of any kind.

### Manufacturing

- All water used during manufacturing is recycled and reclaimed
- Regional manufacturing eliminates unnecessary costs and environmental impact caused by excessive transportation.
- Manufacturing to a net size rather than fabrication from commonly produced slabs reduces excessive wastes in material, labor and transportation. Additionally all sinks and custom options are cast at the time of manufacturing to further reduce material waste.
- Product lifespan is expected to be over half a century in reasonable use.
- Reuse is possible due to its high strength and can be resized, re-polished or recycled back into new Environite™ products.
- Shipping is typically done on a factory direct to job site basis.

### Installation

- Environite™ utilizes company employees or licensed and insured installation services. Typical skill level is equivalent to those doing stone counter or other solid surface installation.

### Technical Data

#### Physical Properties

- Absorption of water - will not absorb water
- Density- ¾" Environite™ \_\_\_\_\_ lbs. per cubic foot  
1" Environite™ \_\_\_\_\_ lbs. per cubic foot
- Flexural Strength- up to 14,000 psi
- Tensile Properties- up to 7,800 psi
- Thermal expansion- less than .0000306 per degree F
- Mohs Hardness- between 6 and 7 on Mohs scale with quartz (silica) being a 7

Boiling Water Resistance- no effect

High temperature Resistance - no effect to incidental contact.

Cigarette test- no ignition or glow

Surface Burning- will not support combustion and will self extinguish in most cases.

Smoke Toxicity-

Radiation- Being of commercially acceptable post consumer and post industrial materials, radiation should be relatively low in comparison to other acceptable building materials.

#### Fabrication & Installation

Environite™ Solid Surface material is manufactured to specific sizes and installed per industry standards for interior stone construction. On site cutting is possible with regular water cooled diamond cutting tools as would be normally used in the stone industry.

#### Shipping and Handling

Handle with care, transport and store in a near vertical position to prevent warping. Keep finished surfaces face-to-face, store inside and away from direct exposure to the sun and between 20 F and 130F.