

GRAND PLAZA RETAIL PODIUM
& PARKING GARAGE
Chicago, Illinois
Contractor: Architectural Wall Solutions, Inc.
Glass Type: V1086 Simulated Sandblast
Photographer: Wes Thompson



SIMULATED ACID-ETCH
CERAMIC FRIT V1085

TRANSLUCENT FRIT

SIMULATED SANDBLAST
CERAMIC FRIT V1086



Viracon's two translucent ceramic frit products, Simulated Acid-Etch (V1085) and Simulated Sandblast (V1086), were developed to offer a translucent glass product—diffused light along with obscured image readthrough—that is easier to maintain and handle than actual acid-etched or sandblasted glass.

A versatile product, the ceramic frits may be used monolithically or in insulating units. And, unlike the real sandblasted or acid-etched surfaces, encapsulated in a laminated unit these ceramic frits will retain their translucent quality.

Both products may be used in vision or spandrel applications. Applied in a silk-screened process, Viraspan™ Design, Viraspan™ Design-Plus, or Viraspan™ Design-Original patterns may be used. You may also combine with high-performance coatings for additional solar control.

Simulated Acid-Etch (V1085) and Simulated Sandblast (V1086)

Product	Transmittance			Reflectance			U-Value			Shading Coefficient	Relative Heat Gain	SHGC	LSG	European U-Value
	Visible	Solar	U-V	Vis-Out	Vis-In	Solar	Winter	Summer						
V1085	75%	66%	50%	10%	9%	8%	1.02	.93	.85	183	.74	1.01	5.7	
V1086	55%	53%	29%	16%	14%	11%	1.02	.93	.74	160	.64	.87	5.7	

Performance data applies to 1/4" (6 mm) clear monolithic glass.
Performance data provided based on LBNL WINDOW 5.2 Software.
The values shown are nominal. They may vary due to manufacturing tolerances.



COLOR UNIFORMITY



COLOR UNIFORMITY



FISHEYE



MARK/CONTAMINANT

INHERENT CHARACTERISTICS

Full coverage is also an option for vision or spandrel areas. When used as full coverage for vision areas, inherent characteristics may make this product unsuitable for certain applications. These characteristics include slight variations in color and uniformity, pinholes, or streaks. See the guidelines below for more detail.

When considering translucent frits for spandrel applications note that these areas may be prone to condensation formation on interior glass surfaces. Over time, this may result in a visible film formation. Therefore, consideration must be given to the suitability of these products in spandrel applications.

Viracon Translucent Frits are only offered for exterior applications.

GUIDELINES FOR VISION APPLICATIONS

- May be applied to any surface except the #1 surface
- The maximum silk-screen pattern coverage is 80% with minimum image and spacing of 1/16"
- Reflective and Low-E coatings may be applied over these frits if the ceramic frit coverage does not exceed 80%
- One hundred percent (100%) coverage is allowed with the following criteria:
 - * Pinholes to 1/16" diameter, fisheyes, streaks from screening process and paint particles are allowed. Large clusters or close spacing of pinholes or other defects are not allowed in the central 80% of the glass area
 - * Color and uniformity may vary slightly due to variations in ceramic frit thickness
 - * Approval of a full-size mockup at an 11' inspection distance and a 90-degree angle to glass surface against a bright uniform background is required

GUIDELINES FOR SPANDREL APPLICATIONS

- Allowed on the #2 or #3 surface only in an insulating unit
- For an insulating laminated make-up with a high-performance coating on the #2 surface allowed on the #3, #4 or #5 surface of the laminated component
- Allowed on the #3 surface of a laminated unit with a coating on the #2 surface, to reduce heat buildup in the laminate
- Not allowed on a surface exposed to the spandrel cavity due to concerns for possible read through from condensation, dirt and other contaminants

HANDLING INSTRUCTIONS

Viracon's V1085 Simulated Acid-Etch & V1086 Simulated Sandblast frits are ceramic enamels that are silk-screened onto

glass and fused onto the surface during heat treatment. The silk-screening process involves depositing the frit on the glass through a nylon mesh. Due to the paint composition, the resultant surface retains some surface irregularity after it is fired onto the glass surface.

Since the surface is rougher than a normal glass surface, clean conditions must exist during installation to prevent contaminants or sealants from begriming the glass. Viracon recommends that the glaziers wear clean cotton or rubber gloves when handling this product. In addition to this, caution is recommended when working with sealants because liquid sealants that penetrate the porous surface may become difficult to remove once cured. The contractor should be aware of the rough surface so appropriate precautions can be taken by the other trades.

CLEANING PROCEDURES

Viracon recommends normal glass cleaning procedures for this product: For routine cleaning, use a conventional window washing solution or mild soap and water. Removal of embedded dirt, grime, or oily residue may be facilitated by using a nylon bristle brush to scrub the uneven surface. Uniformly spray or apply the cleaning solution with a soft grit-free cloth, sponge or pad and rinse thoroughly with clean water. If detergent residue is still present, it can be effectively removed with a 50/50 solution of isopropyl alcohol and water. The glass surface should then be wiped dry with a clean grit-free cloth or squeegee.

Since razor blades, putty knives and metal parts of glazing tools can scratch glass/fritted surfaces, extreme care should be taken with their use.

For additional information or samples of our translucent frits, contact us at 1.800.533.2080.



"The Leader in Glass Fabrication"™

800 Park Drive • Owatonna, MN 55060
507.451.9555 • 800.533.2080 (Toll Free)
E-Mail: glass@viracon.com

© 2008 Viracon. All rights reserved.
VMB-040-1C VRJC0508