

## FRP Panel "Torture" Test with Glasbord Panels

# GLASBORD

*The Only FRP panel with \_Piztía\_Wag.*

Since 1954 Glasbord protected by Surfaseal has been the industry standard for FRP wall & ceiling panels. **Surfaseal provides extra protection against mold, mildew and stains.** Durable, cleanable, easy to install Glasbord is the panel your project demands backed by the service you deserve. Surfaseal is a unique surface treatment that, when compared to ordinary FRP, exhibits up to ten times cleanability, six times the stain resistance and twice the abrasion resistance. Glasbord with Surfaseal panels protect your walls and keep them looking clean.



### Cleanability

When Glasbord with Surfaseal and an ordinary FRP panel are heavily soiled, the Glasbord Panel exhibits up to 10 times more cleanability per MacBeth Computer Colorimeter.

### Test

### Stain Resistance Test

Prolonged direct contact to concentrated ammonia-based cleaner exhibited no color change per MacBeth Computer Colorimeter.

### Test Procedure

#### PURPOSE

To visually compare the cleanability and resistance to surface abrasion of commercial grade FRP panels.

#### EQUIPMENT

- Video Imaging Microscope - Navitar Micromate
- Red Penetrating Dye or Permanent Black Marker
- 5" x 1" Stiff Wire Brush
- Lint Free Rag
- FRP Cleaner

#### SAMPLE PREPARATION

1. Cut sample to 5" x 8"
2. Clean samples of markings or dirt

#### PROCEDURE

##### A. Abrade Panels

1. Using the wire brush, vigorously abrade the samples applying strong, even pressure.
2. Abrade each sample with 10 cycles. One cycle consists of a forward and backward motion over the entire length of the panel.

##### B. Staining Samples

Using either a permanent black marker or red penetrating dye, apply even coverage to the abraded area.

##### C. Clean the Panels

1. Spray the FRP cleaner directly onto the panel surface and begin wiping off the stain with the lint free rag.
2. Change the cleaning rag often to assure that the stain is being wiped off and not smeared on the panel.
3. To effectively remove the stain, the sample may require additional spraying of FRP cleaner on the panel surface



entire length of the

**EVALUATING & REPORTING RESULTS**

- A. Evaluate samples with Video Imaging Microscope.
- B. Observe the abraded areas for actual surface damage.
- C. Compare the amount of stain that remained on the surface of various panels after being cleaned.

**CONCLUSION**

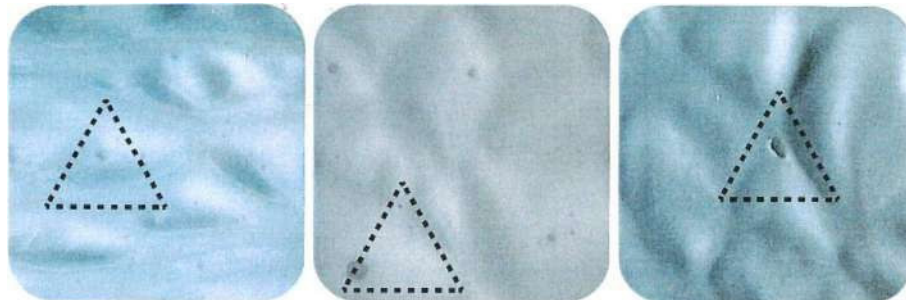
Inspection of the samples before abrasion shows open surface porosity on samples A, B, C, & D. Inspection of the samples after cleaning shows scratches on the surface of A, B, C, & D and additional open surface porosity. Penetrating dye has been absorbed by the scratches and surface porosity and was not removed by cleaning.

The Surfaseal finish on the Glasbord sample has sealed the surface and protected the panel during abrasion. No penetrating dye was absorbed by the panel.

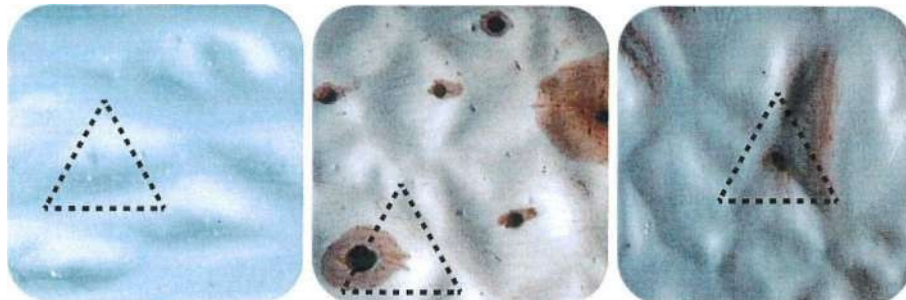
"Competitive samples photographed in this test were received from customer inventories. These microphotographs represent the observed differences and apply only to the sample universe studied. Samples or products from magnified areas were chosen the manufacturer lab technicians as representative of the entire surface."

**LABORATORY RESULTS**  
**GLASBORD Competitive FRP Panels**

**Before Staining**  
25x Magnification



**After Staining**  
25x Magnification



**After Staining**  
93x Magnification

