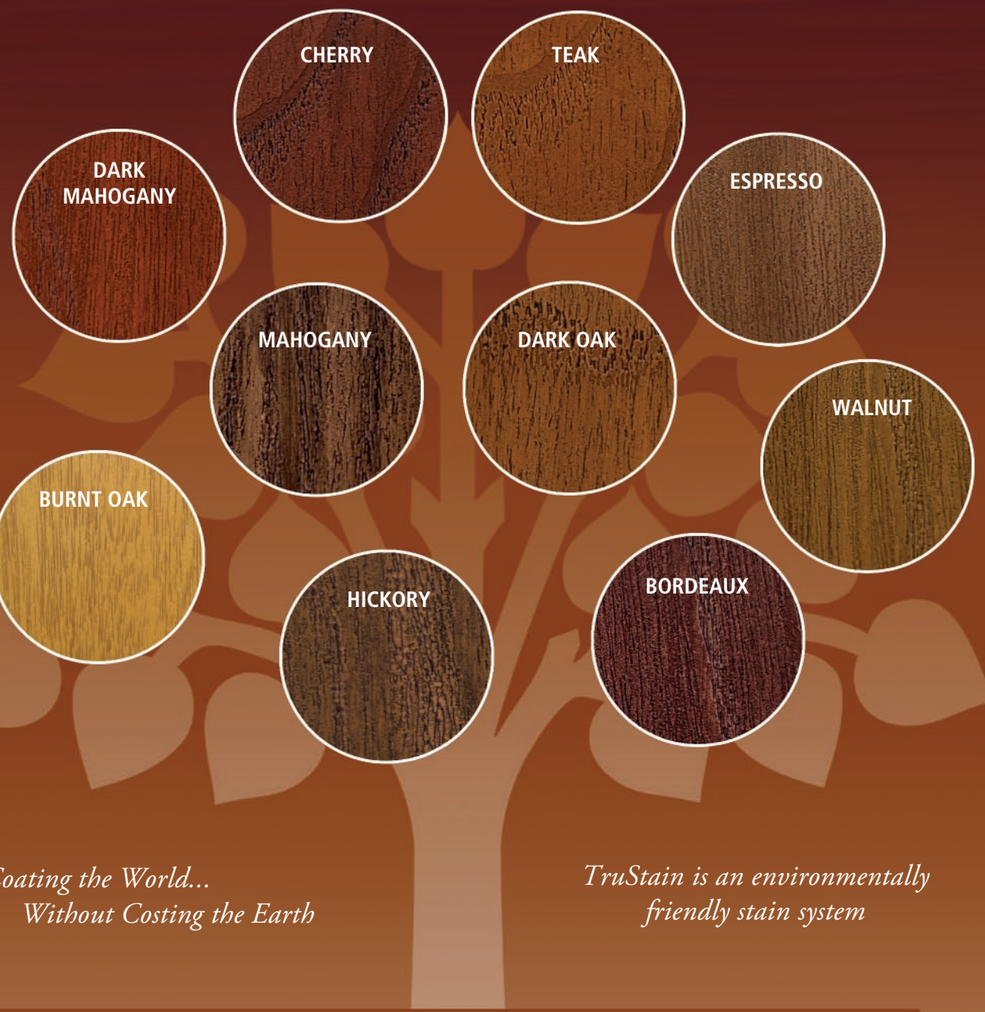
TruStain™

100% NMP FREE ECO FRIENDLY

Spray-On Staining System *for* Fiberglass & Vinyl



Coating the World...
Without Costing the Earth

TruStain is an environmentally friendly stain system

Depth of color will vary based on application technique and number of coats.
Colors shown here are approximate. The actual color achieved may vary from printed materials.
Other wood colors have been developed, ask your salesman for details.

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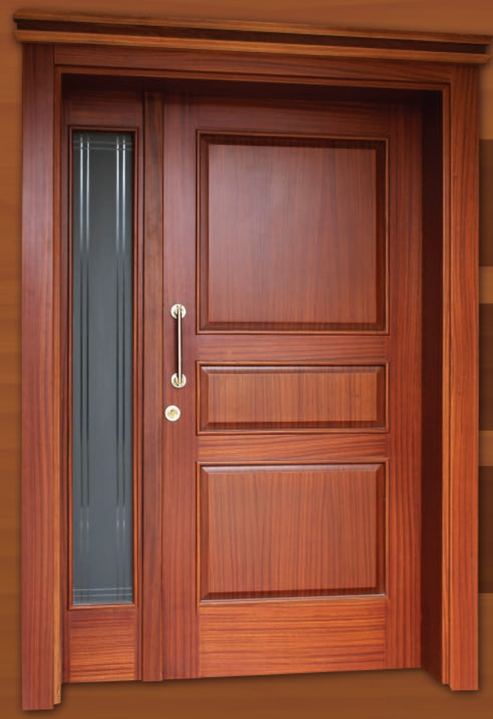

- Water Based Heat Reflective
- Ultra Low VOC, High Performance
- 30 minutes Total Processing Time

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Staining Woodgrain Textured Fiberglass Entry Doors

The Challenge

Not only is most of the existing staining technology inconsistent with environmental trends, it forces users to choose between productivity and repeatability. The choice is generally between the relatively productive, base coat - glaze - top coat method AND a hand crafted look created with a more time consuming, skill sensitive, brushed on gel stain.

In most of the existing staining methods, the component chemistries are not designed to create one single homogeneous protection layer on the Fiberglass, thus compromising the finish's future performance as well as requiring a lengthy process due to long drying times between process steps.

Industry challenges & trends that needed to be addressed include:

- development of a simple environmentally safe process that can be implemented by companies not traditionally associated with the pre finishing activity and by individuals not necessarily experienced in the task.
- reduced industry lead times which require processes that can be completed in a short and predictable timeframe.
- establishing the balance between the INCREASED CONSUMER DEMAND FOR COLOR OPTIONS and the efficient and timely delivery of a profitable value add service without a significant impact on inventories.
- increased realism in door skins have increased the level of detail... How do you maximize the beauty of the finish without masking the details? (many finishing techniques distort and mask detail and result in nothing more than a look of a "painted door" with superimposed "ticking").
- the increased use of cool coatings in other sectors of the building materials industry have significant potential for improving Fiberglass door performance by substantially lowering the temperature of the surface and improving its UV performance.

Features & Benefits

- total processing time reduced to 30 minutes…
- the staining process has been simplified to essentially be a relatively low skilled prepping process (cleaning and grain filling) and a paint process thus essentially combining "staining" and "painting" into one single Department.
- compatible chemistry allows GrainEx to combine with the tinted top coat to create one single homogeneous layer of protection.
- consistent use of pigments between the color matched GrainEx and the Tinted Top Coat ensures both a contrast enhancing effect as top coat is sprayed, and a superior long term performance as pigment strength between GrainEx and Tinted Top Coat are cumulative.
- the use of strategically controlled pigment loading ensures the user applies a sufficient amount of product to enhance future performance while reducing the skill required to achieve a consistent finish.
- the use of transparent pigments and the spray application itself create the potential for adding depth by "shading".
- easy scratch repair since stain and clear coat are together, a single product and touch up will restore original color (this applies to future restoration as well).
- the TruStain system makes it easy to match peripheral ancillary products such as frames, jambs and door lights (use Aqua-SurTech's AquaUltra stainable coating in some cases where colored substrates are used and/or matches are critical).

The Answer

In addressing these challenges and trends... TruStain was created. As in most developments, the creative use of some of the old, blended with the new, creates the INNOVATION. TruStain's unique advantages have taken production staining to a new level.

The Process

STEP ONE : Wet Sanding with Vinyl Kleen and then Vinyl Prep

- degreases and normalizes the surface to ensure an exceptional bond.

STEP TWO : Grain Filling with TruStain GrainEx

- fills the grain to get enhanced "grain pop".
- the long open time and "rewetable" formulation gives the user sufficient time to create the desired look even in recessed portions of the surface.
- use a plastic scouring pad or a sponge/squeegee to force GrainEx into the grains.
- remove as little or as much of the GrainEx from the flat portions of the surface depending upon the desired finished look.

STEP THREE : Staining and Protecting with TruStain Tinted Top Coat

- by combining the staining and the top coating into one step (using TruStain Tinted Top Coat), time is reduced and the potential for any reaction between a stain layer and a subsequent "clear coat" layer is eliminated.

TruStain™ Creating a Simulated Wood Look on Smooth Vinyl

The Challenge

In the PVC Window industry the introduction of interior wood grains (normally in the form of laminates) has created both a lead time and inventory head ache for many fabricators. A practical JIT method of producing an attractive wood look will not only reduce inventories but it can expand the potential choice offered to the consumer.

Other materials like cellular PVC and some composites are also sensitive to heat build up and cannot be finished with standard products. In many cases they are sold at a premium by virtue of their maintenance free characteristics. These materials require high performance maintenance free finish for both solid colors (AquaSurTech's D200) and wood grain looks. TruStain™

Features & Benefits

- simple (easier than painting a solid color), fast, repeatable but not a pattern.
- match fiberglass door stain colors with smooth white vinyl accessories (or many other substrates including wood).
- enjoy the performance of vinyl with the look of wood.
- TruStain is designed for both interior and exterior application.
- the process can be used on areas larger than profiles (smooth fiberglass or steel doors).
- in-the-field touch-ups are a breeze.

The Answer

TruStain meets the challenge !

TruStain's proven heat reflective characteristics produce the lowest possible heat build up, thus protecting vinyl from distortion and minimizing fading significantly. The extremely long service life of the finishes are quite consistent with any "maintenance free" expectation.

The realistic looks (minus any repeating pattern found in many printed wood grains) open up many more possibilities in recapturing the incremental value associated with bridging the gap between a standard vinyl product and a high end wood product.

The Process

STEP ONE
Cleaning the Vinyl with VinylKleen and then VinylPrep ensures a direct "cross link" between TruStain and the vinyl, thus ensuring adhesion.

STEP TWO
Laying down the TruStain GrainEx as the grain base

- you decide the look through the application tool at this stage, the more optical "noise" the courser the pattern.
- the goal at this stage is to generate inconsistencies in the surface "consistently" with any anomalies contributing to a "natural look".

STEP THREE
Spraying the Tinted Top Coat

- the user decides the depth and consistency of the color based on the application thickness (it's no different than painting a solid color).