

Product Description

3form Varia Ecoresin is a dynamic interlayer system with design possibilities as diverse as your imagination. By allowing you to custom-select the color, pattern, texture, interlayer and finish of your material, Varia Ecoresin transforms into the perfect medium for your architectural application. Varia Ecoresin XT can be specified for vertical applications in exterior environments. Dichroic™ and Wood™ are also part of the Varia Ecoresin product line.

An award-winning 3form product, Varia Ecoresin has the added benefit of being made from a specially-formulated copolyester resin that combines performance with environmental responsibility. Ecoresin incorporates 40% pre-consumer recycled content without compromising aesthetics or overall physical properties, is compatible with one of the largest post-consumer recycle streams, and is GREENGUARD® Indoor Air Quality Certified.

FEATURES AND BENEFITS

- Produced on an individual order basis, allowing for creative design and product selection (minimum order quantity – ONE sheet!)
- Post-formable into virtually any shape or size for eye-catching installations
- SCS-certified recycled content helps achieve LEED® credits for building sustainability
- Very tough, allowing for easy fabrication and maximum installed durability
- Extremely versatile which enables designers to achieve full design potential
- Lightweight, half the density of glass, which makes for easier installation and reduces structural support requirements
- Excellent chemical resistance which reduces potential harm incurred by cleaning agents
- Varia Ecoresin is GREENGUARD Indoor Air Quality Certified
- Varia Ecoresin is Underwriters Laboratories registered

AVAILABLE COLORS

Varia Ecoresin is available in a variety of standard woven colors. Visit www.3-form.com/materials-varia.com for all available options. Use the C3 Color Matching System to create over 10,000 custom colors.

DICHROIC

Lunar	Solar
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WOOD

Bamboo	Rosewood	Zebrano Chevron
Walnut	White Oak	Zebrano Slip Match

Available laser-cut patterns (wood only):

Array	Burrow	Flicker
Flora	Halftone	Pulse
Sequence	Custom designed	

TEXTURES/PATTERNS/FINISHES

Varia Ecoresin includes a wide range of textures and patterns from our Organics*, Moderna, Play, Texture, Color, Wood, Dichroic and Graphic collections.

*The Varia Ecoresin system panels utilizing natural products as a decorative interlayers may change in appearance over time. Natural materials are also subject to inherent inconsistency in color, texture and shape.

Each product in the Varia Ecoresin collection comes standard with both a front and back finish. Additionally, 3form provides the option of substituting between six standard finishes. In most cases, you can even pick different front and back finishes. Finishes include:

- **Patent** - A high gloss finish with highest light transmittance
- **Patina** - A non-glare finish with smooth appearance
- **Sandstone** - A more durable finish with a subtle texture
- **Stucco** - A durable finish with a pebbled texture
- **Supermatte** - A frosted matte finish for maximum light diffusion
- **Topo** - A unique crystalline finish

*Dichroic is only offered in Sandstone and Supermatte finishes, but can be ordered with the SFX Frost applied finish.

*Wood is only offered in Patent, Patina, Sandstone and Supermatte finishes.

Additionally 3form low-VOC functional coatings may be applied to the surface of 3form Varia Ecoresin. Finishes include:

- **Titanium** - Smooth, silver, mirror-like finish on the backing of a panel
- **Markerboard Plus** - High gloss finish with dual purpose dry-erase board capability
- **Vision Plus** - Frosted finish with dual purpose projection screen capability
- **Patina Plus** - Non-glare finish with slightly frosted appearance
- **SFX Frost** - Applied frosted finish with paper-like appearance

PANEL SIZES AND TOLERANCES

Varia Ecoresin panels are offered in 4' x 8' (1.2 m x 2.4 m) and 4' x 10' (1.2 m x 3 m). All dimensions and squareness are subject to a 3/16" (4.7 mm) tolerance. 5' x 10' (1.5 m x 3 m) is also available, though some restrictions apply.

Varia Ecoresin is available in gauges from 1/16 inch to 1 inch. Dichroic and Wood are not available in 1/16 inch gauge.

SHEETS WITH ONE WOVEN COLOR

NOMINAL THICKNESS GAUGE	MINIMUM ALLOWANCE GAUGE	MAXIMUM ALLOWANCE GAUGE
1/16" (1.5 mm)	0.050"	0.070"
1/8" (3.1 mm)	0.104"	0.132"
3/16" (4.7 mm)	0.168"	0.192"
1/4" (6.3 mm)	0.212"	0.260"
3/8" (9.5 mm)	0.324"	0.384"
1/2" (12.7 mm)	0.436"	0.508"
3/4" (19 mm)	0.648"	0.768"
1.0" (25.4 mm)	0.850"	1.060"

ALL OTHER NON-EMBOSSSED SHEETS, DICHROIC & WOOD

NOMINAL THICKNESS GAUGE	MINIMUM ALLOWANCE GAUGE	MAXIMUM ALLOWANCE GAUGE
1/8" (3.1 mm)	0.098"	0.138"
3/16" (4.7 mm)	0.155"	0.205"
1/4" (6.3 mm)	0.196"	0.306"
3/8" (9.5 mm)	0.304"	0.434"
1/2" (12.7 mm)	0.412"	0.562"
3/4" (19.0 mm)	0.618"	0.798"
1.0" (25.4 mm)	0.850"	1.090"

Sheet tolerance readings are based on an average of several measurements along both long edges of each panel. These measurements are taken 2-3 inches (50-75 mm) from the edges of the panel.

Linear patterns in Varia Ecoresin panels have a skew tolerance of 1/4" skew over 48".

FLATNESS TOLERANCE

Varia Ecoresin panels shall not have distortion in the form of a wrinkle, twist or scallop along the perimeter of the sheet. Overall warp extending across the sheet is permitted to a maximum of 9/32" (7.14 mm) for each 48" (1.2 m) or fraction thereof. Panel is to be measured when laying horizontally under its own weight on a flat continuous surface.

Specifications

FLAMMABILITY & SMOKE TEST RESULTS – BUILDING CODE APPROVALS

Varia Ecoresin panels (a polyester-based material), have been independently tested and meet the criteria for approved interior finishes and light transmitting resin materials as described in the 2009 International Building Code®.

TEST	3FORM VARIA ECORESIN	RESULT
ASTM D 2843 Smoke Density	71.6%	PASS Less than 75
ASTM D 635 Flame Spread	Self extinguishing	PASS CC1
ASTM D 1929 Self-ignition Temperature	716°F	PASS Greater than 650°F
ASTM E84-03 Flame Spread, 1/4" thickness Smoke generated	65 250	Class B: 26-75 <450

TEST	3FORM VARIA ECORESIN	RESULT
ASTM E84-03 Flame Spread, 1/2" thickness Smoke generated	55 400	Class B: 26-75 <450
ASTM E84-03 Flame Spread, 3/4" thickness Smoke generated	35 450	Class B: 26-75 <450
ASTM E84-03 Flame Spread, 1" thickness Smoke generated	20 250	Class A: 0-25 <450
NFPA 286 1/4" thickness (walls only or ceilings only)	Pass	Class A
3/8" thickness (walls, standoff configuration)	Pass	Class A

Due to their specialty construction, 3form Dichroic and 3form Wood have their own unique set of fire performance results.

TEST	3FORM DICHROIC	RESULT
ASTM D 2843 Smoke Density	47.5%	PASS Less than 75
ASTM D 635 Flame Spread	17.4 mm/min	PASS CC2
ASTM D 1929 Self-ignition Temperature	716°F	PASS Greater than 650°F
ASTM E84-03 Flame Spread, 1/4" thickness Smoke generated	65 450	Class B: 26-75 <450

TEST	3FORM WOOD	RESULT
ASTM D 2843 Smoke Density	68.5%	PASS Less than 75
ASTM D 635 Flame Spread	16.7 mm/min	PASS CC2
ASTM D 1929 Self-ignition Temperature	716°F	PASS Greater than 650°F
ASTM E84-03 Flame Spread, 1/4" thickness Smoke generated	75 450	Class B: 26-75 <450

PANEL WEIGHT

THICKNESS (INCHES)	WEIGHT FLUX (LB/FT²)
1/16" (1.5 mm)	0.4 lb/ft² (2.0 kg/m²)
1/8" (3.1 mm)	0.8 lb/ft² (3.9 kg/m²)
3/16" (4.7 mm)	1.2 lb/ft² (5.9 kg/m²)
1/4" (6.3 mm)	1.7 lb/ft² (8.3 kg/m²)
3/8" (9.5 mm)	2.5 lb/ft² (12.2 kg/m²)
1/2" (12.7 mm)	3.3 lb/ft² (16.1 kg/m²)
3/4" (19.0 mm)	5.0 lb/ft² (24.4 kg/m²)
1.0" (25.4 mm)	6.6 lb/ft² (32.2 kg/m²)

EXPANSION/CONTRACTION ALLOWANCES

Like all resin products, 3form Varia Ecoresin will expand and contract nominally with fluctuations in temperature. The following formula provides allowances that should be made in framed or fitted applications:

- Longest length of panel (inches) x temperature change of the sheet (°F) x 0.00004 = Amount of Linear Expansion/Contraction (inches)

EXAMPLE:

- 48" x 96" panel that experiences a 50°F temperature change will expand/contract: 96 inches x 50 degrees x 0.00004 in/in °F = 0.192 inches (expansion)

Installers should take extra precautions if installation is occurring before the HVAC systems are operational. Allowances should also be made in the following situations:

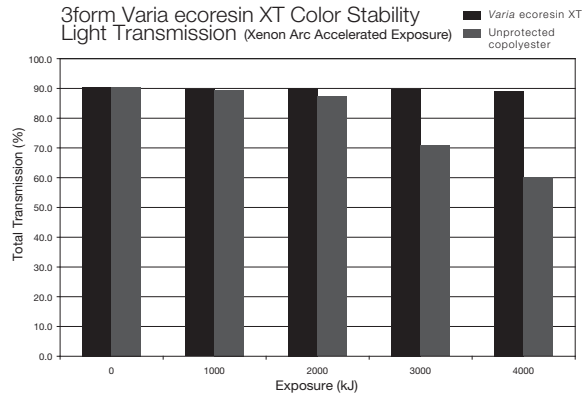
- Fastening points
- Channel depths in frames
- Holes for standoffs and other hardware
- Meeting points for multiple sheets of 3form Varia Ecoresin

EXTERIOR PERFORMANCE

UV stabilizers, when incorporated with 3form Varia Ecoresin XT panels, have proven to be very effective in maintaining the integrity of the panels with extended exposure to UV radiation.

*3form Wood is not to be used for exterior applications as the wood interlayer is susceptible to swelling or cracking over time.

*3form Dichroic is not to be used for exterior applications.



COLOR STABILITY

The above chart illustrates the effectiveness of the UV stabilizers incorporated into 3form Varia Ecoresin XT panels. Following 4,000 kJ of exposure (representing approximately 5 years outdoor Florida exposure), the 3form Varia Ecoresin XT exhibits excellent performance and maintains consistent light transmission.

USAGE LIMITATIONS

VARIA ECORESIN XT

3form Varia Ecoresin XT is not intended for horizontal exterior applications. Dark colors should be avoided if possible as they absorb excessive heat which can lead to permanent distortion or warping. Varia Ecoresin XT is not recommended for extreme high temperature environments (eg, Arizona, New Mexico, Texas, etc.)

DICHOIC

Because 3form Dichroic interlayer is very delicate, it is not recommended for use in exterior applications.

When using Dichroic in pressure fitting applications, such as stand-off supports, use a pressure distribution plate or neoprene gasket to prevent localized panel separations.

WOOD

Because 3form Wood is produced from natural wood pieces, it is not recommended for use in high moisture or exterior applications. Natural wood is very responsive to environmental conditions (moisture, humidity, temperature changes) and therefore is restricted to interior applications.

EDGE SEALING

Certain Varia Ecoresin designed layers (organics, papers and fabrics in particular) can have a tendency to wick moisture over time if the edges become wet and are not adequately sealed. These Varia Ecoresin products should not be exposed to water or wet conditions without first applying an approved edge sealing treatment. Varia Ecoresin produced using C3 or HighRes do not require edge sealing. These are good options to use as an alternative to Woven Colors and Organics. Edge sealing is required on all exposed edges (including any holes that are created to allow for stand-off fastening). There are some designed Varia Ecoresin Woven Colors that do not exhibit wicking behavior and therefore do not need to be edge sealed. If you have additional questions or concerns

regarding edge sealing of 3form products please contact the 3form Technical Help Desk at 877-649-2670.

DEFLECTION

3form Varia Ecoresin will exhibit different amounts of deflection given a variety of factors: fastening techniques, loads, gauges and panel dimensions to list a few. The 3form Technical Help desk can assist you with general deflection guidelines for your application. You may also consult the Varia Deflection Charts technical white paper. If your application has specific engineering requirements, please contact the 3form Product Technology team for additional direction.

HEAT FORMING/COLD BENDING

Varia Ecoresin can be cold bent for simple bends and curved areas. As a rule, a minimum radius of 100 times thickness is acceptable for Varia Ecoresin (will depend on interlayer material). A minimum radius of 250 times thickness should be used for Dichroic. A minimum radius of 200 times thickness should be used for Wood.

PANEL THICKNESS	MINIMUM COLD BEND RADII		
	VARIA ECORESIN	DICHOIC	WOOD
1/16" (1.5 mm)	7" (178 mm)	-	-
1/8" (3.1 mm)	12" (305 mm)	32" (813 mm)	24" (610 mm)
3/16" (4.7 mm)	19" (483 mm)	47" (1194 mm)	37" (950 mm)
1/4" (6.3 mm)	25" (635 mm)	63" (1600 mm)	50" (1270 mm)
3/8" (9.5 mm)	37" (940 mm)	94" (2388 mm)	75" (1905 mm)
1/2" (12.7 mm)	50" (1270 mm)	125" (3175 mm)	100" (2540 mm)
3/4" (19.0 mm)	75" (1905 mm)	188" (4775 mm)	150" (3810 mm)
1" (25.4 mm)	100" (2540 mm)	250" (6350 mm)	200" (5080 mm)

Because of its low thermoforming temperature, Varia Ecoresin is easy to line bend or drape form. For specific details on line bending and heat-forming please consult the 3form Varia Ecoresin Fabrication Manual.

The special construction of 3form Dichroic and Wood introduces challenges in terms of heat forming. Because both are rigid interlayers, complex curvature is not possible. Simple curves and bends may be accomplished.

For highly complex shapes and curves, consult with or employ the services of the experts in 3form Fabrication.

EDGE FINISHING

Edges of 3form Varia Ecoresin panels are able to be machined or routed into a variety of different forms. In addition to a straight edge, edges may accept beveling, rounding, etc. Additional finishing, such as sanding or polishing, can also be provided to some edges.

Selected Mechanical and Physical Properties for 3form Varia Ecoresin

		TYPICAL VALUE			
		0.118" (3 MM)		0.236" (6 MM)	
PROPERTY*	ASTM METHOD	SI	U.S.	SI	U.S.
GENERAL					
Density	D 1505	1,270 kg/m ³	79 lb/ft ³	1,270 kg/m ³	79 lb/ft ³
Water Absorption	D 570 23° C (73° F), 24h immersion	0.2%	0.2%	0.1%	0.1%

MECHANICAL					
Tensile Stress @ Yield	D 638	53 MPa	7,700 psi	53 MPa	7,700 psi
Tensile Stress @ Break	D 638	26 MPa	3,800 psi	26 MPa	3,800 psi
Elongation @ Yield	D 638	4.8%	4.8%	5.0%	5.0%
Elongation @ Break	D 638	50%	50%	40%	40%
Tensile Modulus	D 638	2,200 MPa	320,000 psi	—	—
Flexural Modulus	D 790	2,100 MPa	310,000 psi	2,000 MPa	290,000 psi
Flexural Strength	D 790	77 MPa	11,200 psi	83 MPa	12,000 psi
Rockwell Hardness	D 785	115	115	117	117
Safety Glazing	ANSI 97.1	PASS		PASS	
Izod Impact Strength, Notched	D 256 @ 73°F D 256 @ 32°F D 256 @ -22°F	88 J/m 66 J/m 39 J/m	1.7 ft-lbf/in. 1.2 ft-lbf/in. 0.7 ft-lbf/in.	62 J/m — —	1.2 ft-lbf/in. — —
Impact Strength, Unnotched	D 4812 @ 73°F D 4812 @ 32°F D 4812 @ -22°F	NB** NBB NBB	NB** NBB NBB	NB** — —	NB** — —
Impact Resistance—Puncture, Energy @ Max. Load	D 3763 @ 73°F D 3763 @ 32°F D 3763 @ 14°F D 3763 @ -4°F D 3763 @ -22°F	33 J 40 J 42 J 43 J 47 J	24 ft-lbf 30 ft-lbf 31 ft-lbf 32 ft-lbf 34 ft-lbf	71 J 93 J 96 J >100 J >100 J	53 ft-lbf 69 ft-lbf 71 ft-lbf >74 ft-lbf >74 ft-lbf
THERMAL					
Cont. Max Use Temperature -Varia	—	65°C	150°F	65°C	150°F
Cont. Max Use Temperature - Dichroic	—	60°C	140°F	60°C	140°F
Cont. Max Use Temperature - Wood	—	60°C	140°F	60°C	140°F
Heat Deflection Temperature	D 648 @ 264psi	70°C	157°F	73°C	164°F
Vicat Softening Temperature	D 1525 @ 1 kg	83°C	181°F	—	—
Forming Temperature	—	138-160°C	280-320°F	—	—
Thermal Conductivity	ASTM D 5930	0.205 W/m-K	0.118 Btu/hr-ft ² -°F	0.205 W/m-K	0.118 Btu/hr-ft ² -°F
Coefficient of Thermal Expansion	ASTM D 696	7x10 ⁻⁵ mm/mm/°C	4x10 ⁻⁵ in/in/°F	7x10 ⁻⁵ mm/mm/°C	4x10 ⁻⁵ in/in/°F

*Unless noted otherwise, all tests are run @ 73°F (23°C) and 50% relative humidity, using specimens machined from extruded sheeting with a thickness as indicated.

**Nonbreak as defined in ASTM D 4812 using specimens having a thickness as indicated. Properties reported here are typical of average lots. 3form makes no representation that the material in any particular shipment will conform exactly to the values given.

REFINISHING

It is possible for Varia Ecoresin to become damaged by scratching. Patent is the only Varia Ecoresin finish that may be repaired, and requires use of a flame polishing technique*.

*Not possible with Varia Ecoresin XT.

Light scratches and scuffs on the sandstone surface finish can be repaired with a plastic polish. The majority of 3form products have a surface finish that would be ruined by buffing.

SOUND TRANSMISSION CLASS (STC) VALUES FOR VARIA ECORESIN

Measurement protocol: ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

THICKNESS	STC VALUES
1/8" (3.1 mm)	25
3/16" (4.7 mm)	29
1/4" (6.3 mm)	31
3/8" (9.5 mm)	34
1/2" (12.7 mm)	34
1" (25.4 mm)	39

THERMAL INSULATION VALUES FOR VARIA ECORESIN

Insulative values are a function of both the convective properties (U-values and shading coefficients) and the conductive properties (thermal conductivity).

Measurement protocol: ASTM E 903 - Standard Test Method for Solar Absorbance, Reflectance and Transmittance of Materials Using Integrating Spheres. ASTM E 891-87 - Tables for Terrestrial Direct Normal Solar Spectral Irradiance Tables for Air Mass. ASTM E 408-71 - Standard Test Method for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques.

VARIA ECORESIN CLEAR THICKNESS	WINTER U-VALUE (BTU/HR-FT ² -°F)	SUMMER U-VALUE (BTU/HR-FT ² -°F)
1/4" (6.3 mm)	0.97	0.93
3/8" (9.5 mm)	0.90	0.87
1/2" (12.7 mm)	0.83	0.80

Chemical Resistance of 3form Varia Ecoresin to Select Compounds

365 DAY FULL IMMERSION TESTING @ 73°F (23°C)

Polymer materials are affected by chemicals in different ways. Changes in performance or appearance can be attributed to fabrication methods, exposure conditions, concentration of chemical substances or exposure duration. Such factors can even influence the final effect of substances that 3form Varia Ecoresin is considered "Resistant" to under test conditions. Further details are explained below:

FABRICATION

Stresses generated from sanding, grinding, drilling, polishing, machining, sawing and/or forming (hot or cold).

EXPOSURE

Exposure duration, stresses imparted during the application life-cycle due to loads, temperature changes, heat, environments, etc.

APPLICATION OF CHEMICALS

Application from contact, rubbing, wiping, spraying, soaking, etc. Also having an affect is the relative concentration of the chemical in question.

The following data is based on complete immersion of Varia Ecoresin in the chemical or reagent shown. Samples remained immersed and were stored at 73°F (23°C) for a period of one year. Following the test period the samples were removed from immersion and inspected.

The following table provides indicative performance of the chemical resistance characteristics of Ecoresin. The following codes are used to describe the chemical resistance characteristics:

R = RESISTANT

3form Varia Ecoresin is able to withstand the identified compound for long exposure periods up to 120°F (7 days, full immersion)

LR = LIMITED RESISTANCE

3form Varia Ecoresin is only resistant when in contact with this compound for short periods at room temperature. It is advised that further determination of the effect of the substance be further tested in your particular application.

NR = NOT RESISTANT

3form Varia Ecoresin is not resistant to the compound. The material will

swell, craze, haze, dissolve or experience some physical change when exposed to this substance.

REAGENT	RESULT	REAGENT	RESULT
Acetic Acid, 5%	R	Acetic Acid, conc.	NR
Acetone	NR	Ammonium Hydroxide, conc.	NR
Antifreeze, Automotive Ethylene Glycol Type	R	Benzene	NR
Brake Fluid, DOT3	R	Brake Fluid	LR
Carbon Tetrachloride	NR	Chromic Acid, 40%	R
Citric Acid, 10%	R	Cottonseed Oil	R
Deionized Water	R	Detergent, Alconox (0.25%)	R
Di (2-Ethylhexyl) Phthalate	R	Dibutyl Sebacate	R
Diesel Fuel	LR	Dimethyl Formamide	NR
Ethanol, 50%	R	Ethanol, 100%	R
Ethyl Acetate	NR	Ethylene Dichloride	NR
Gasohol, 10% Ethanol	LR	Gasohol, 10% Methanol	LR
Gasoline, Base for Gasohol	LR	Gasoline, Premium Unleaded	LR
Gasoline, Regular	R	Gasoline, Regular Unleaded	LR
Grease, Automotive	R	Hand Cleaner, Waterless Jergens SBS30	R
Hexane	R	Hydrochloric Acid, conc.	NR
Hydrochloric Acid, 10%	R	Hydrogen Peroxide, 3%	R
Hydrogen Peroxide, 28%	R	Isooctane	R
Kerosene	R	Lacquer Thinner	LR
Methyl Alcohol	LR	Mineral Oil	R
Motor Oil	R	Nitric Acid, conc.	NR
Nitric Acid, 10%	R	Nitric Acid, 40%	LR
Oleic Acid, 83%	R	Olive Oil	R
Penetrating Oil, Liquid Wrench #1	NR	Phenol, 5%	NR
Silicone Spray Lubricant	NR	Soap Solution, 1%	R
Sodium Carbonate, 2%	R	Sodium Carbonate, 20%	R
Sodium Chloride, 10%	R	Sodium Hydroxide, 1%	R
Sodium Hydroxide, 10%	R	Sodium Hypochlorite, 3.5%	R
Sulfuric Acid, conc.	NR	Sulfuric Acid, 3%	R
Sulfuric Acid, 30%	R	Tapping Oil	R
Toluene	NR	Transformer Oil	LR
Transmission Fluid, Auto	R	Turpentine	LR

Cleaning Instructions

3form Varia Ecoresin, like all thermoplastic resin materials, should be cleaned periodically. A regular, seasonal cleaning program will dramatically help prevent noticeable weathering and dirt build-up. 3form recommends the use of the following common cleaning products: Windex, Formula 409, Simple Green, Fantastik, 10:1 Water/Bleach Solution.

Rinse the sheets with lukewarm water. Remove dust and dirt from Varia Ecoresin with a soft cloth or sponge and a solution of mild soap and/or liquid detergent in water. A 50:50 solution of isopropyl alcohol and water also works well. Rinse thoroughly with lukewarm water.

Always use a soft, damp cloth to blot dry. Rubbing with a dry cloth can scratch the material and create a static charge. Never use scrapers or squeegees on Varia Ecoresin. Also avoid scouring compounds, gasoline, benzene, acetone, carbon tetrachloride, certain deicing fluids, gasoline, lacquer thinner or other strong solvents.

DO NOT:

- Use a squeegee.

- Use strong solvents, highly alkaline or abrasive cleaning agents.
- Clean in hot sun or at elevated temperatures.
- Rub with a dry cloth.

PRESSURE WASHING

Pressure washing can also be an effective way to remove miscellaneous debris from surfaces of 3form Varia Ecoresin installations that are in exterior or hard-to-reach places.

Pre-soak panels with a light water spray to loosen and remove incidental surface debris.

It is recommended that the water pressure for cleaning Varia Ecoresin panels be 1,500 psi or less. 3form Varia Ecoresin is a tough material but can be damaged if high pressure is concentrated in a single position too long. Use a gradual sweeping motion over the application. Never concentrate water spray in a single position. Pressure nozzle should never be positioned closer than 8 inches (203 mm) from the panel surface.

Test a portion of the sheet first before spraying. If test piece shows any sign of material fatigue, abrasion or delamination – discontinue pressure washing and proceed with manual cleaning instructions as described above.

Coated or painted parts are not suitable for pressure washing as finish may be stripped off. Pressure washing is also not suitable for Varia Ecoresin panels that have been edge sealed or seamed. If using detergent, use mild detergents only. Rinse sheet with light water spray after washing.

DO NOT:

- Concentrate spray in single position.
- Use more than 1,500 psi pressure.
- Position pressure nozzle closer than 8" (203 mm) from panel.
- Proceed with pressure washing if test piece shows detrimental effects to panel.
- Pressure wash Varia Ecoresin panels that have been painted or coated to maintain coating integrity.
- Pressure wash Varia Ecoresin panels with sealed edges to ensure edge seals remain in tact.

If debris or dirt is not removed by pressure washing attempt to clean with manual procedures described in preceding section.

IMPORTANT

If a cleaning material is found to be incompatible in a short-term test, it will usually be found to be incompatible in the field. The converse, however, is not always true. Favorable performance is no guarantee that actual end-use conditions have been duplicated. Therefore, these results should be used as a guide only and it is recommended that the user test the products under actual end-use conditions.

For more information, please visit 3-form.com or call 877-649-2670.