

## **WARNING**

READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE USING, HANDLING OR CARING FOR INNOLAST™ PANELS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS, PERMANENT PHYSICAL INJURY TO THE USER OR BYSTANDER, AND/OR MAY RESULT IN SIGNIFICANT PROPERTY DAMAGE.

Personal protective equipment (PPE), including protective eyewear, dust masks, and clothing, gloves and footwear appropriate for use in working with concrete, cement and plastics must be worn when working with or near Panels.

Panels are intended solely for concrete forming applications. Do not use Panels as planking or as working, walking or standing surfaces. Wet panel surfaces are slick and present a slip hazard.

Users must comply with Occupational Safety and Health Administration (OSHA) Regulations and Construction Industry Standards applicable to construction work and concrete forming. Users also must comply with federal, state and local laws, ordinances and regulations applicable to discarding and recycling construction waste including plastic composites.

Users should read and follow instructions provided with concrete mixes and/or with cement and sand used in making concrete mixtures.

These Instructions are dedicated to instructing users on the safe use, handling and care of Concrete Forming INNOLAST™ panels only and are not intended to provide training or instruction on concrete forming techniques or tools, safe use of concrete, cement or sand, or construction work safety practices.

For additional information or questions concerning Concrete Forming INNOLAST™ panels, please contact customer service at:

NOVA Chemicals Corporation  
2928 – 16th Street North East  
Calgary Alberta  
Canada T2E 7K7  
(403) 250-4564

## INNOLAST™ Lightweight Composite Panels Concrete Forming



### Use, Handling and Care Instructions

**/! WARNING:** See reverse side of these Instructions for important additional safety messages.

## **INNOLAST™**

### **Lightweight Composite Panels - Concrete Forming**

Engineered from high-performance SURPASS® polyethylene resins, INNOLAST™ panels are specifically designed to replace plywood and other formliners in concrete forming applications. With proper care and usage, Panels can be used for upwards of 100 plus applications. Light in weight, high in mechanical strength and resistant to water absorption and chemical interaction, INNOLAST™ panels offer unparalleled performance and cost effectiveness to the concrete craftsman.

### **How to Use INNOLAST™ Panels**

INNOLAST™ panels should be cut to desired dimensions with standard wood working tools and may be fastened with countersunk screws. Panels must be cut in well-ventilated areas that are free of open flames, exposed electrical wires and other ignition sources.

Panels will not expand or contract due to moisture or variations in humidity. Panel expansion and contraction, however, is affected by temperature: expansion or contraction over an 8-foot length of Panel is less-than 1/16 inch per 32° F change in temperature.

Both sides of a Panel can be used for pours. Because the Panels do not absorb moisture, edge sealant is not required on field cuts or exposed edges of Panels.

Joints and seams between Panels and voids in a Panel's surface can be filled with the use of a hot air welder and high density polyethylene welding rods. Please refer to your hot air welder user's manual and polyethylene welding rod Material Safety Data Sheet (MSDS) for safety, health, environmental and use instructions on these welding products. Excess filler can be removed with a standard hand grinder or scraper. Care should be used in removing excess filler to avoid damaging the Panel's surface.

For curved applications, a heat gun may be used to mold a Panel to the desired shape. At the Panel location where a bend with an acute or obtuse angle is desired, make 5 to 6 evenly spaced cuts into the Panel cross-section from the backside. This technique of removing excess material will ensure a bend with a minimum radius of curvature and it will reduce the amount of heat and time required to mold the Panel. Cuts should not extend deeper than ¾ of the Panel's thickness to ensure the Panel's surface remains intact.

For vibrating concrete, rubber-tipped vibrators are recommended. Care should be used to avoid direct contact between the vibrator and Panel surfaces as damage to Panel surface may occur.

Release agents typically are not required with Panels for the first 10 to 20 pours. Thereafter, release agents may be required, but in quantities less than that typically required with other concrete formliners. As the Panels do not absorb or react with chemicals, most release agents may be used with Panels. It is recommended to apply form release agent on the same day when a pour is scheduled otherwise the desired effect may not result. Please refer to the release agent's MSDS for safety, health, environmental and use instructions for such agents.

Panels are designed for easy stripping from cured concrete. Do not use metal pry bars or other sharp objects in removing Panels as damage may occur.

### **How to Care For and Store INNOLAST™ Panels**

Concrete can be removed from a Panel surface with standard wood or metal scrapers. Care should be used when scraping to avoid damaging Panel surfaces. Concrete residue can be washed from a Panel surface with water. Do not use metal brushes or high-pressured water to clean Panels as damage will occur. It is recommended to clean Panels immediately after stripping in order to extend Panel's life cycle.

Once cleaned, damaged Panels can be repaired with a hot air welder and high density polyethylene welding rods. Please refer to your hot air welder user's manual and polyethylene welding rod MSDS for safety, health, environmental and use instructions on these welding products. Once the imperfection is filled, excess filler can be removed with a standard hand grinder or scraper. Care should be used in removing excess filler to avoid damaging the Panel's surface.

Panels should be stored on a level surface. Panels stored on pallets should not be stacked higher than 3 pallets. Plastic strapping is recommended to avoid surface damage caused by metal strapping. To avoid injury, use proper lifting techniques when handling Panels; each 8 foot long Panel weighs approximately 65 pounds. When possible, store Panels out of direct sunlight.

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