



OSH Spray Application Product Data Sheet

Product Name CeramiGlass

Manufacturer Industrial Control Development, Inc.

7250 S. Union Ridge Parkway

Ridgefield, WA 98642 Phone: (360) 546-2286 Fax: (360) 546-2287

Description CeramiGlass™ is an inorganic water base, spray coating

developed to coat glass surfaces.

Use CeramiGlass can be used for opaque coatings such as

automotive, appliance, architectural and furniture glass.

Application The coating must be applied in a clean environment and

the coating must be applied to the "air side" of the glass.

Glass substrates must be thoroughly cleaned.

"Recommended Techniques for Washing Glass", by Vitro Architectural Glass is an excellent resource to review.

Application Equipment

Automatic spray equipment has shown the most

consistent film application.

Various spray set-ups can be utilized for application of OSH formulations. Production requirements will determine

best nozzle size to use.

Conventional, air-assisted airless, and airless nozzles

have shown acceptable results.

Glass Preparation

The glass substrate must be thoroughly cleaned. Any

contaminates present on the glass surface will lead to

aesthetic defects.

Mechanical glass washers are the preferred means for washing the glass and should always be used where quality of glass is desired. The proper detergent and amount is required to ensure glass

cleanliness.

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Handling after Application

Coated parts should not be stored in ambient conditions for extended amounts of time prior to heat curing. If the parts are allowed to sit in these conditions, a blooming affect will be seen on the surface of the coatings. Therefore, it is recommended that parts be exposed to a heat cycle directly after application. If continuous production is not practical, then a pre-cure will be required.

If needed, water can be used to remove excess CeramiGlass prior to any heat curing.

For storage and handling applications, the coating temperature will need to be a minimum 700°F (370°C) for 4-5 minutes to develop film properties.

For final applications, a tempering cycle is required. Once the tempering cycle is complete, the coating will have maximum film properties.

Cleaning

CeramiGlass can be cleaned from equipment with hot water.

Do not use solvents.

A final soap and water rinse should be used to remove any remaining residue.

For problem areas, a dilute solution of sodium hydroxide can be used to solubilize the coating.

Storage & Shelf Life

Store below 90°F (30°C) but **KEEP FROM FREEZING**. Keep container sealed when not in use. Do not stack containers over two (2) high. For best results, use with six (6) months from date of shipment. Settling may occur. Mix product well before use.

Packaging

Standard and special colors are packaged in 3.5 gallon containers.

Containers will have product residues when emptied. Follow precautions for handling this product when disposing of container. Containers are not intended for re use.

SDS Information

Attention: Product safety information required for safe use. Before handling, read product and material safety data sheets and container labels for safe use, physical and health hazard Information. The material safety data sheet is available from ICD (360) 546-2286.

Warranty Information

Please Read Carefully.

ICD believes that the Information In this publication is an accurate description of the typical characteristics and/or uses of the product or products, but it is your responsibility to thoroughly test the product in your specific application to determine its performance, efficiency and safety.

Unless ICD provides you with a specific written warranty of fitness for a particular use, ICD's sole warranty is that the product or products will meet ICD's then current sales specifications. ICD specifically disclaims any other express or implied warranty, including the warranties of merchantability and of fitness for use. Your exclusive remedy and ICD's sole liability for breach of warranty Is limited to refund of the purchase price or replacement of any product shown to be other than as warranted, and ICD.

Application Parameters

* A uniform wet film of 2 - 2.5 mills (50 - 62.5µ) is recommended.

		2 Mils	2.5 Mils
Wet Thickness	Inches/mils	.002	.0025
	μ	51	62.5
	Millimeters	.051	.063
Square Foot Coverage	Ft ² per Gal	561	449
	Ft ² per Kg	95	76
Square Meter Coverage	M ² per Gal	52.1	41.7
	M² per Kg	8.83	7.06

Cure Profiles

Pre-Cure

Minimum five (5) minutes, 350-400 °F (177-204°C).

Annealed Glass

- 1. Pre-cure: a minimum five (5) minutes, 350-400°F (177-204°C).
- 2. Cure four to five (4-5) minutes, 700°F (370°C).

Product can be stored for later glass fabrication and tempering processes.

Tampered Glass

- 1. Pre-cure: a minimum of five (5) minutes, 350° -400° (1TT-204°C).
- 2. Cure: Tempering temperature 1,200°F (650°C).

Typical Properties

These values are not intended for use in preparing specifications.

Appearance	Various
Solids, weight by percent	36 – 52 %
Viscosity	2,000 - 9,000 cps #6 spindle
Specific gravity	Varies with each color 1.3 – 1.63
рН	≤13
Solvent	Water
Boiling point	102°C (215°F)

Cured Properties

QUV	5,000 Hours +
Hardness	9H
Room Temperature Water (depending upon cure)	No effect
60°C Water (tempered)	21 days. No effect

CeramiGlass is a water-based material. Evaporation times will vary according to temperature and humidity.

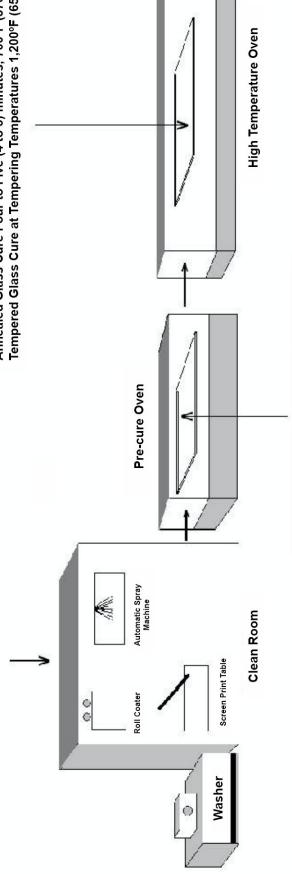
For longer working times, higher humidity is required.

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Room Temperature Between 50-70°F (10-21°C) Room Relative Humidity 80% or Above

Tempered Glass Cure at Tempering Temperatures 1,200°F (650°C) Annealed Glass Cure Four to Five (4 to 5) minutes, 700°F (370°C)



Pre-cure, One (1) mil, a minimum 5 minutes @350°F (177°C) Glass Temperature