

# ZeraClad™ V-100

Advanced 100% Solids Epoxy Wall Coating

## DESCRIPTION

ZeraClad™ V-100 is a high performance two-component, 100% solids epoxy wall coating that provides an aesthetically pleasing high gloss showroom quality finish. It combines toughness, durability and chemical resistance.

ZeraClad™ V-100 is specially formulated based on colour stable cycloaliphatic amine hardener, as well as UV blocker/stabilizer additives. With all of this together, it provides excellent colour stability for indoor applications as well as UV-resilient properties for outdoor.

## WHERE TO USE

ZeraClad™ V-100 is highly recommended as a wall coating for laboratories, shower rooms, change rooms, hospitals and warehouse facilities, food and meat packaging plants, breweries, recreational facilities, underwater fountains and pharmaceutical plants.

It is also recommended for concrete blocks in areas subjected to high humidity; ZeraClad™ V-100 must be used in conjunction with ZeraPrime™ 95-DS or ZeraPrime™ W-48FS. No primer is needed over existing epoxy coating or drywalls.

For swimming pool coating applications of ZeraClad™ V-100, a two coat application plus a primer of ZeraPrime 95DS are recommended. Each coat must be applied within 16 hours from each other.

## BENEFITS

- 100% solids with no offensive odors, zero VOC's
- Durable seamless surface that is easy to clean
- Mildew resistant; waterproof
- Excellent good colour stability for interior applications
- Good abrasion resistance
- Excellent opacity and colour hiding capability
- Resistance to water immersion
- Can be reinforced with fiberglass fabric
- Good resistance to diluted acids and common chemicals
- Approved by the "Canadian Food Inspection Agency" to be used in food processing facilities

## Handling Properties (@ 23°C (74°F))

Mix Ratio, by volume	2 parts A: 1 part B
Solids Content	100%
Mixed Weight (Density)	1.3 kg/litre (10.9 lb./ U.S. gal)
Viscosity (mixed)	(thixotropic) 3000 cps
Pot Life	40 minutes
Thin film set time	16 hours
Full Cure	7 days
Colour (can be tinted)	White

## DATA - Cured Film

Tensile Adhesion	Concrete Failure (ASTM D4541)
Hardness (Shore D Scale)	80 (ASTM D2240-86)
Abrasion Resistance (ASTM D4060)	98 mg loss
Taber Abrasion, C-17 wheel, 1000 cycles	
Impact Resistance	160 in./lb. (ASTM D2794)

## APPLICATION

### SURFACE PREPARATION

New concrete must be cured for a minimum of 28 days before applying ZeraClad™ V-100. The substrate must be above 10°C (50°F) and must be free of all dirt, waxes, previously applied coatings, oil, grease, laitance and any foreign matter that may interfere with the bond of the coating to the prepared substrate. Cracks and surface defects should be repaired prior to the application of the coating.

### AREA PREPARATION

For optimal performance, both the coating and substrate should be maintained at 18° to 30° C (68 to 86°F) for 24 hours prior to beginning work. The same temperature range should be maintained during mixing, application and cure.

### MIXING

ZeraClad™ V-100 must be conditioned to a temperature of between 20°-30°C (68°-80°F) prior to mixing. The mixing equipment used to mix the coating must be clean and free of any contaminants that may be

present in the equipment from previously used products. Mix component A first to eliminate the possibility of settlement. Add Part “B” hardener to Part “A” base container and mix until uniform. A ‘Jiffy Mixer’ on a slow speed drill is the preferred method of mixing. Mix the blended components for 2 minutes, and use the material immediately. ZeraClad™ V-100 may be thinned with ZeraSolv™ to lower the viscosity, slow the curing (the build up) thus allowing easier application of the coating to address the details of the wall.

### **APPLICATION**

Pour a workable amount of the mixed material into a paint tray and apply to the surface using a lint free 5 mm nap roller. Two coats are recommended. Apply the second coat in the same manner as the first. The second coat must be applied within 24 hours. If applied after 24 hours, the first coat must be sanded prior to application of the second coat.

### **LIMITATIONS**

Do not apply ZeraClad™ V-100 if:

- the substrate and ambient temperature are below 10°C (54°F)
- you must use a damp surface primer (such as ZeraPrime™ W-48FS or ZeraPrime™ 95DS) over a damp concrete surface

### **COVERAGE (THEORETICAL)**

225-245 ft<sup>2</sup> per U.S. gallon per coat. A minimum of 2 coats are required. Coverage is dependant on surface porosity.

### **PACKAGING**

3.79 L (1 U.S. gallon)

### **CLEAN UP**

Clean all equipment and installation tools immediately with xylene or acetone.

### **STORAGE**

Store in a heated warehouse.

### **SHELF LIFE**

Two years from the date of manufacture if kept in original unopened containers under normal heated warehouse conditions.

### **SAFETY PRECAUTIONS**

Consult Material Safety Data Sheet (M.S.D.S.) for specific instructions.

### **WARRANTY**

“The recommendations made and the information herein is the result of accurate laboratory and field tests under controlled conditions. We guarantee that the quality and properties of the materials supplied conform to our standards. Zeraus Products Inc. makes no warranties, expressed or implied, as uses and applications are beyond our control. Zeraus Products Inc. shall not be liable for any injury, loss, or damage (direct or consequential) arising from use or inability to use the products. Before using, the user is urged to pre-test the products in his/her own environment to determine the suitability of the products for their intended use, and the user assumes all risk and liability whatsoever in connection therewith.

Zeraus Products Inc.’s liability, if any, is limited to a refund of the purchased price or replacement of that portion of the merchandise proven to be defective. Zeraus Products Inc. shall have no other liability, including liability for incidental, consequential or resultant damages, however caused, whether due to breach of warranty, negligence, or strict liability.

This warranty may not be modified or extended by representatives of Zeraus Products Inc., its distributors or dealers.”