

# ZeraDur™ 200CR

## Chemical Resistant Epoxy Floor Coating

### DESCRIPTION

ZeraDur™ 200CR is a 100% solids, low viscosity, fast-setting, two-component epoxy floor coating that has a high level of chemical and abrasion resistance.

### WHERE TO USE

ZeraDur™ 200CR is recommended for use in areas with moderate to heavy vehicular traffic and where there is exposure to chemicals. The product is recommended for use in warehouse facilities, foundries, chemical facilities, and processing areas, refineries, pulp and paper plants, operating rooms, manufacturing plants, airline hangars, containment areas and any areas requiring protection against chemicals, petroleum based lubricants and solvents.

### BENEFITS

- 100% solids, with very low odour, zero VOC's
- Fast setting and easy to apply
- Good gloss and colour retention
- Excellent bond to concrete
- Low viscosity with excellent flow
- Water and chemical resistant
- Resistant to battery acid
- Superior wear resistance
- Resistant to water spotting
- Available in variety of colours (minimum order is required)

### Handling Properties

Mix Ratio, by volume	2 parts A: 1 part B
Viscosity (Mixed) @ 23°C (74°F)	800 cps
Solids Content	100%
Mixed Density	1.14 kg/litre (9.5 lb/US gal)
Pot Life @ 23°C (74°F)	20 minutes
Thin film set time @ 23°C (74°F)	8 hours
Foot traffic @ 23°C (74°F)	12-16 hours
Vehicular Traffic @ 23°C (74°F)	16-24 hours
Full Cure and Maximum Resistance	7 days

### DATA - Cured Film

Tensile Elongation	10% @ break (ASTM D638-86)
Tensile Strength	28 MPa (4000 psi)

(ASTM D638-86)	
Hardness (Shore D Scale)	82
(ASTM D2240-86)	
Abrasion Resistance (ASTM D4060)	79 mg loss
Taber Abrasion, C17 wheel, 1000 cycles	
Impact Resistance	pass 160 in./lb.
(ASTM D-2794)	

### APPLICATION

#### SURFACE PREPARATION

ZeraDur™ 200CR should be applied over clean, sound, dust free surfaces. For best results, surface should be prepared as follows:

#### Concrete (New):

Shot blasting or equivalent to remove surface laitence, curing compounds or form oils. Concrete should be minimum 28 days old or have 3% or less moisture content. Moisture content can be determined using test method ASTM D4263.

#### Concrete (Old):

Remove oil, grease, dirt and any unsound concrete using a combination of commercial degreasers, alkaline wash, shot blasting or diamond grinding. A combination of acid-etching and power wash can also be used. Cracks and surface defects should be repaired prior to the application of the coating. If acid etching is the method of choice for preparation of the concrete surface, the etched surface must be thoroughly flushed and dry prior to the coating application.

Prime with ZeraPrime™ 100FS when the concrete substrate is dry, or ZeraPrime™ W-30FS when the surface is damp.

#### 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.

Application in direct sunlight and rising surface temperatures may result in blistering of materials due to expansion of entrapped air or moisture in the substrate. Concrete that has been in direct sunlight must be shaded 24 hours prior to application and remain shaded until after the initial set.

## 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. Pour all of the liquid from Part A and Part B into the mixing container. A 'Jiffy Mixer' or a mud mixer blade on a slow speed drill is the preferred method of mixing. Mix the blended components for 2 minutes.

## APPLICATION

Pour a workable amount of the mixed material on to the prepared substrate and spread it evenly over the surface with a flat squeegee. Using a lint free 5 mm nap roller, back roll the applied material to provide an even coat. Care should be taken not to overroll the material as air may become entrapped in the coating. Two coats are recommended, one prime coat and one topcoat. If a non-slip sanded surface is required, a properly graded, dry, contaminant free grit should be broadcasted on the surface and back rolled to encapsulate the aggregate into the coating. Apply the second coat in the same manner as the first. Allow to cure thoroughly before exposing to chemicals or continuous traffic.

## LIMITATIONS

- Do not apply ZeraDur™ 200CR if the substrate and ambient temperatures are below 10°C (50°F)
- Do not apply less than 8-10 mils as an orange peel finish may appear due to insufficient material to self level
- Do not leave mixed material (Part A & B together) in the container for an extended amount of time, as it will harden, warm up and smoke.
- Not recommended for areas subjected to steam cleaning, harsh chemicals or heavy impact
- Do not use over an existing floor without testing both the intercoat adhesion as well as the adhesion of the existing floor to concrete
- Do not apply in areas where the humidity is greater than 85%
- May discolor under direct constant exposure to UV, and due to some chemical exposures
- Do not use on slab-on-grade without vapour barrier

## COVERAGE

Based on 10 mils thickness per coat:

4 m<sup>2</sup>/litre (160 ft<sup>2</sup>/U.S. gallon)

NOTE: A minimum of 2 coats is required. (One prime coat and one topcoat)

## PACKAGING

3.79 litre / 1 U.S. gallon units

11.4 litre/ 3 U.S. gallon units

56.7 litre/15 U.S. gallon units

## CLEAN UP

Clean all equipment and installation tools immediately with xylene.

## SAFETY PRECAUTION

Consult the Material Safety Data Sheet (MSDS) for specific instructions.

## STORAGE

Store in a heated warehouse. Do not freeze.

## SHELF LIFE

2 years from the date of manufacture if kept in original unopened containers

## 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.

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