

ZeraFlex™ PR100

Flexible Clear Urethane-Modified Epoxy Primer

DESCRIPTION

ZeraFlex™ PC100 is a two-component, high build, medium viscosity, 100% solids, clear urethane modified epoxy primer.

It exhibits a unique combination of flexibility, toughness, excellent adhesion and high thermal shock and impact resistance. It is designed primarily for outdoor application (with non-slip additive) in conjunction with ZeraCoatW-205 waterborne urethane or ZeraSpart 100 (polyaspartic coating).

WHERE TO USE

ZeraFlex™ PR100 is designed as a primer for concrete, vinyl tiles, ceramic tiles, as well as wood. It is recommended for floors that are subjected to high impact, minor movements, or thermal shock. It is ideal for balcony decks, porches and outside walking ways.

BENEFITS

- 100% solids, with low odour, zero VOC's
- Epoxy urethane hybrid technology
- Excellent adhesion properties as primer or intermediate coating
- Accommodates minor expansion and contraction of wood surfaces.
- High impact and thermal shock resistance
- Adheres well to vinyl and rough ceramic tiles
- Outstanding toughness and adhesion properties

HANDLING PROPERTIES @ 23°C (74°F) :

Mix Ratio, by volume	1 part A: 1 part B
Viscosity (Mixed)	1750 cps
Solids Content.....	100%
Mixed Weight (Density)	1.06 kg/litre (8.85 lb./US gal)
Pot Life (Working Time)	30 mins
Thin Film Set Time	16 hours
Foot Traffic	16 hours
Light Vehicular Traffic	24 hours
Full Cure & Maximum Resistance.....	7 days
Colour	clear

Cured Properties (7 days cure @23°C (74°F)/50RH):

Tensile Elongation	34% @ break
(ASTM D638-86)	
Tensile Strength	19 Mpa (2755 psi)

(ASTM D638-86)

Hardness (Shore D)..... 68

(ASTM D2240-86)

Impact Resistance Pass 160 in/lb.

(ASTM D2794)

SURFACE PREPARATION

Existing Epoxy Floor:

Make sure that the floor is clean and free from oil or grease. The floor must be sanded with 80-100 grits to provide profile for adhesion. Ensure that the existing floor is sound and adhered well to the concrete. Epoxy coating would not adhere to alkyd or oil base coated floors.

Concrete (New):

New exterior concrete must be cured for a minimum of 28 days. The concrete slab should be shot blast or mechanically abraded to provide a clean tooth for the coating.

Concrete (Old):

Remove oil, grease, dirt and any unsound concrete using a combination of commercial de-greasers, alkaline wash and shot blasting. Cracks and surface defects should be repaired prior to the application of the coating. Substrate must be above 10°C (50°F) and must be free of all dirt, waxes, previously applied coatings, oil, grease and any foreign matter that may interfere with the bond of the topping to the substrate.

Wood:

Ensure that the moisture content in the wood is as low as possible. Do not use ZeraFlex™ PR100 over painted or varnished surfaces. They must be either sanded with an 80 grits sandpaper or stripped using commercial paint strippers.

Tiles:

The vinyl tiles must be sanded with 50 grits sandpaper, vacuumed and cleaned with solvent (xylene) if there are traces of grease or oil. Ceramic tiles should be either sanded with 50 grits sandpaper or the acid itching technique.

Steel:

Remove greases, oils and contaminants from the surfaces and sandblast to white metals.

MIXING

Combine Part A and B of **ZeraFlex™** PR100 into a clean container. Mix thoroughly using a ‘Jiffy Mixer Blade’ or a mud mixer blade on a low speed drill for a minimum of 2 minutes. Scrape the side to ensure a uniform mix.

APPLICATION

As a coating, immediately after mixing component A and B together, pour a workable amount of the mixed coating on to the prepared surface and spread the material evenly with a squeegee. Then, using a lint free 5 mm nap roller (designed for epoxy and urethane), back-roll the applied material to provide an even coat. If a non-slip finish is required, add Zeraus’ Non-Slip Additive (20P) to the mixed coating prior to the application, or lightly seed 31 mesh silica sand into the wet coating, and then back-roll to provide an even coat.

LIMITATIONS

- Do not apply **ZeraFlex™** PR100 if the substrate and ambient temperatures are below 10°C (50°F).
- Not recommended for areas subjected to steam cleaning or harsh chemicals.
- Not recommended as topcoat.
- May discolor (on its own) under direct exposure to UV or strong interior light.
- Do not use on slab-on-grade without vapor barrier.

COVERAGE

Prime Coat: (5 mils): 8 m²/litre (300 ft²/U.S. gallon)

PACKAGING

7.58 litre (2.0 U.S. gal.) units

CLEAN UP

Clean all equipment and installation tools immediately with xylene or low odour **ZeraSolv™** (non-air pollutant solvent).

SAFETY PRECAUTIONS

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

SHELL LIFE

Two years from the date of manufacture if kept in the original unopened containers under normal room temperature.

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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