



Technical Application Specification: TAS - 890

Epathane 'CRU' Clearseal (Chemical Resistant Urethane)

'CRU' CLEAR

Index:

Page #	Contents
2	Description/Packaging & Coverage
2	Step One: Surface Preparation and Surface Evaluation
3	Step Two: Crack Treatment
3	Step Three: Epathane 'CRU' Application
4	Step Five: Care and Maintenance
4	Environmental Conditions & General Cautions

Purpose and Scope of this Specification:

This specification shall act as the Florico Polytech Inc. Manufacturers Standard Application Specification of Installation Procedures for Florico Polytech Epathane 'CRU' Clearseal. These application procedures for Florico Polytech Epathane 'CRU' Clearseal are intended solely for applications over previously prepared, structurally sound concrete surfaces (for any other surfaces: Consult Florico Polytech Inc.), by professionally trained and qualified contractors with full knowledge of industry standards and practices. Florico Polytech makes no claim to contractor's qualification; however annual training schools are available for contractors seeking "factory trained" status for warranty purposes.

Product Description:

Florlic Polytech Epathane 'CRU' Clearseal is a two component, high performance, water clear, chemical resistant urethane. Epathane 'CRU' requires an epoxy primer, when installed over concrete. Epathane 'CRU' produces a durable abrasion resistant clearseal.

Thickness: 4-6 mils (8-16 mils with primer)

Description and Packaging & Coverage:

Mix Ratio: Mix 1 Unit 'A' with 1 Unit 'B'

<u>Item #</u>	<u>5 mil Application:</u>	<u>Coverage:</u>
2294-00000	Epathane 'CRU' Clearseal 'A' Comp Unit 1	240 Square Feet per mixed unit
2291-00000	Epathane 'CRU' 'B' Comp Unit 1	

NOTE: Varying job site conditions such as porosity and texture of the surface, may effect actual material consumption. The above table is designed only as a guide in determining actual materials required. Mock up samples and/or job site mock-ups are highly recommended.

Test Sections and Mock ups:

Experimentation with application procedures are highly recommended prior to tackling a project with this product. It is recommended that samples and mock-ups be done. Representative test sections must be produced for the Owner's approval in writing.

1) STEP ONE: SURFACE PREPARATION AND SURFACE EVALUATION

- A)** Prior to performing any installation of Florlic Polytech materials the concrete substrate should be evaluated for unacceptable conditions such as dusting, powdering, and/or other type of latent structural defects. Substrate preparation should be started only after all substrate requirements and environmental conditions have been met, and relevant substrate testing has been completed.
- B)** Check moisture vapor pressure using a Calcium chloride moisture test kit. Report these readings and any other unusual slab conditions to Owner, Architect, General Contractor and Florlic Polytech, Inc. immediately. **Note:** All Moisture related information must be copied to Florlic Polytech for warranty purposes. **Note:** any tampering or disturbance with this test can yield non-accurate high-test results, causing added costs and time to the schedule. Test kits should be set one per thousand square feet.
- C)** Areas in the floor contaminated with hydraulic fluid, cutting oils, and/or any other such penetrating material prone to migration, should be marked, degreased and shot-blasted until they turn white. Stubborn stains may need to be degreased, flame burnt, and then shot-blasted. Immediately prime-coat these areas with an epoxy primer to avoid further contaminant migration to the surface
- D)** Florlic Polytech Epathane 'CRU' is a thin-section flooring and will thus reflect any pronounced grooves or scores within the substrate. . The degree of surface preparation specified may require that pock-marks, rough spots, and/or surface irregularities in the concrete should be repaired with the appropriate Florlic Polytech approved product. Minor irregularities can be spot-patched using Florlic Polytech SRP-100. Consult Florlic Polytech for substrate patch and repairs products, treatment of cracks, cold joints, control joints, expansion joints, seismic joints, deep fill patches, high early strength concrete design for full depth repairs, and adjoining drain and edge terminations.

Technical Application Specification For: TAS - 890 Cont'd

- E) Surfaces should only be lightly "brush-blasted" with machines operating at high speed levels ranging, using reduced shot size (S170 - S230), appropriate for the equipment used. Shot blasting should be performed in accordance with the International Concrete Repair Institute (ICRI) Standards for concrete surface preparation.

Caution: The production of acceptable shot-blasted surfaces for application of Epathane 'CRU' Clearseal is highly dependent upon the skill of the shot-blast machine operator.

- F) Shot-blasted concrete surfaces must be swept, vacuumed, and/or blown free of any debris, residual dust, and steel shot to avoid contamination of subsequent sealer coats.
- G) Before proceeding to the mixing and application steps, concrete substrate must be clean and dry, with sufficient material removed to provide optimum bond to a sound surface. Optimum bonding substrates shall be shot-blasted and free of laitance, glaze, efflorescence, and any other bond-inhibiting curing compounds or form release agents, etc.
- H) Do not proceed to mixing and application steps if substrate and environmental conditions exceed temperature and humidity limits of 55-90°F (12-33°C), and not to exceed 95% Relative Humidity. A five percent variance between wet bulb reading and relative humidity is required prior to the application of Floric Polytech materials.

2) STEP TWO: CRACK TREATMENT

Existing cracks in the concrete substrate may transfer through the Floric Polytech Epathane 'CRU' Clearseal. To reduce the occurrence of cracks in the Floric Polytech Epathane 'CRU' Clearseal application it is important to properly identify and treat substrate cracks.

CRACK REPAIR:

Refer to the guidelines set forth in Floric Polytech TAS-105 Crack Detailing.

3) STEP FOUR: EPATHANE 'CRU' APPLICATION

EQUIPMENT:

In addition to the standard professional tools necessary to complete any multi-component floor coating application, the Floric Polytech Epathane 'CRU' application will require the following tools and equipment: squeegee, trowels, and rollers for spreading and applying material. As different finishing tools will leave different looks, test sections must be applied using appropriate cleaning and application method before use and application of project.

PROTECTION:

Protect walls and surrounding surfaces not to receive Floric Polytech Epathane 'CRU' Clearseal. Do not allow coatings to come in contact with wood, metal or any surfaces not intended to be coated.

EPOXY PRIMER:

Epathane 'CRU' Clearseal requires an epoxy primer for all installations over concrete. Allow primer to dry, but apply Epathane 'CRU' over primer within a 36 hour period. When installing over cementitious overlays or other coatings, please contact Floric Polytech for primer requirements.

EPATHANE 'CRU' CLEARSEAL APPLICATION:

- A. **Mixing:** Premix the individual containers of Floric Polytech Epathane 'CRU' units 'A' and 'B' to insure proper polymer dispersion. Stir with a power drill motor and jiffy type mixing paddle until the material is mixed into a homogenous blend. Slowly pour the entire contents of the 'B' unit into the 'A' unit and mix with a power drill motor and jiffy type mixing paddle for 3 minutes. **Note:** Bulk mix ratio is 5 parts 'A' to 2 parts 'B'.
- B. **Coverage:** Approximate coverage is as follows:

<u>Thickness</u>	<u>Coverage Rate</u>
5 mils	240 square feet per mixed unit

Technical Application Specification For: TAS - 890 Cont'd

- C. Spreading:** Pour Epathane 'CRU' Clearseal material onto primed surfaced in a line. Use a squeegee to spread material at desired thickness quickly and evenly. Backroll material as evenly as possible, it is important to have a consistent thickness and to reduce roller marks over the whole surface. Keep a wet edge while applying. **Note:** Wear spiked shoes while spreading material so that you can walk freely as you backroll material.
- D. Dry Time:** Allow 8-10 hours to dry
- E. Recoating:** If a second coat is desired, be sure to apply it after the first coat is dry, but with in a 36 hour window.

4) STEP FOUR: CARE & MAINTENANCE

Epathane 'CRU' Clearseal is a chemical resistant floor system designed for ease of maintenance. Wax's will not stick to it. Dry mop regularly with occasional wet mop using non caustic cleaners. **Note:** For special maintenance solutions, please consult your local Floric Polytech Technical Representative for a finish recommendation based on your projects specific requirements or call Floric Polytech toll free at 1 (866) 4 FLORIC.

ENVIRONMENTAL CONDITIONS:

1. For safety reasons and the drying/curing process, adequate ventilation is required during the entire installation process of both to evacuate any fumes, and to reduce build up of moisture for the coating application.
2. A five percent variance between wet bulb reading and relative humidity is required prior to the application of sealer.

GENERAL CAUTIONS:

1. Read and follow Floric Polytech technical application specification TAS – 2002
2. Always obtain, read and observe Manufacturer's safety data Sheets (MSDS) before handling resinous materials. Become familiar with the products on paper before you open the container.
3. Read and observe precautionary statements on product labels.
4. Keep containers tightly closed.
5. Keep out of reach of children.
6. For proper workability it is important that the Floric Polytech materials be stored and mixed at a temperature of 55°F - 80°F (18°C - 26°C).
7. All concrete curing agents, sealers and hardeners must be removed from the concrete prior to application of the bond coat.
8. Good ventilation must be provided during application, particularly in confined spaces, and respirators must be worn by all installers.
9. To avoid a FIRE HAZARDS. Do Not Use any cleaning solvents such as (Acetone, Xylene, lacquer thinner, toluene or MEK etc) in conjunction with any powered tools or equipment i.e. (grinders, floor buffers, sanders, etc) when clean floors or removing existing coatings. Avoid working in areas with exposure to open flames such as heater, oven with pilot lights, welding or cutting equipment and any other such source of open flame. Please think and act safely when working with any flammable materials.