HyppoCoat 100PM

Hybrid Polyurea/Polyurethane Pedestrian Waterproofing System

DESCRIPTION

HyppoCoat 100PM is a 100% solids, rapid-curing, liquid applied hybrid polyurea/polyurethane waterproof coating system. The system utilizes one coat of our twocomponent HyppoCoat PC solvenated epoxy-polyamine primer, one coat of our two-component HyppoCoat 100 elastomeric basecoat, and one coat of our HyppoCoat TC hybrid aliphatic polyurea topcoat mixed with a sand slurry.

HyppoCoat 100PM is a user friendly, low odor coating system that is specifically designed to be capable of withstanding both light and heavy pedestrian traffic. Its high-elongation elastomeric properties allow the system to expand and contract with normal structural movements. It can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on pedestrian decks. It will neither soften nor embrittle in cold weather.

Recommended system coverage thicknesses are 36 dry mils for light pedestrian traffic and 48 dry mils for heavy pedestrian traffic. Be sure to use the right product grade that complies with VOC regulations as per federal, state, county and city regulations within the place of installation.

SURFACE PREPARATION

Check area of application to ensure that it conforms to the substrate requirements, as stated in the general guidelines section. Concrete surfaces require a medium sandpaper finish equal to or greater than an ICRI CSP #3. Surface preparation may be completed by shotblasting or the use of a sufficient concrete surface cleaner. Peel and adhesion tests are recommended.

Install a 100-200 sq ft (9.30 – 18.58 sq m) mock-up of the system to be installed and approve for aesthetics, color, texture, actual coverage rates, and functionality before proceeding. For project specifications, please contact a Barrett representative.





REPAIRS

Apply a single or two-component, non-gassing polyurethane sealant over all joints, cracks, and flashing.

Bridge the joints, cracks, and flashings with 4" (10 cm) polyester tape, pushing it into the 30 mil (762 microns) pre-stripe of basecoat. Alternatively, joints and cracks 1/16" (0.15 cm) or larger may be sealed flush with Liquid Flash 100 concealed with 4" (10 cm) sealant tape (concrete must be primed first and allowed to dry).

Over reinforcement tape, apply a pre-stripe coat of HyppoCoat 100 material and taper it into the adjacent surface. No pre-stripe is necessary with the use of a sealant tape. Allow the surface to cure for 1-2 hours.

APPLICATION OF BASE FLASHINGS

Before installing the primary horizontal membrane, flashings are installed with HyppoCoat 100 and PolyFelt 125VP non-woven reinforcement fabric. The minimum required height for base flashings is 8" and the maximum is 30".

Apply 125 mils of HyppoCoat 100 material 8" onto the horizontal plane and 8" on the vertical plane. Immediately apply 1 ply of PolyFelt 125VP into the material on the horizontal surface, embedding it tightly into the cove before placing it up the vertical surfaces. Sheeting must be completely embedded and free of wrinkles or fishmouths. All laps in the PolyFelt 125VP must be at least 4" and completely sealed with HyppoCoat 100.



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PRIMING (per application)

Before installing the primary horizontal membrane, prime surface with HyppoCoat PC at a rate of 300 sq ft/ gal using an airless sprayer, brush, or a phenolic-core roller. This will result in 3-5 dry mils (76-127 microns) of coating. Rough and pin-holed concrete surfaces may require more primer. Discovery of these issues is generally revealed in the mock-up (see above).

HyppoCoat PC/PC+ Side-A and Side-B should each be thoroughly mixed individually prior to combining to ensure a homogeneous material. The volume mixing ratio is 1 part Side-A to 1 part Side-B (1A:1B). Once combined, the material should be thoroughly mixed using a mechanical mixer at a slow speed, or for at least 5 minutes if mixing by hand.

Allow primer to become tack-free before proceeded to the coating application. Typically, the primer can be considered nearly tack-free when it passes the thumbprint test. The thumbprint test is defined by when a thumbprint is left in the primer without the primer transferring onto the thumb.

Do not allow primer to dry more than 24 hours after being tacky before coating with base coat. If the primer has been allowed to remain tack-free for more than 24 hours, it is necessary to solvent wipe the primed area and reprime at 300-400 sq ft/gal. Alternatively, sand can be broadcast into the primer while it is wet or tacky to prevent re-priming application.

COATING APPLICATION

Apply HyppoCoat 100 to substrate at a rate of 1.5 gal/100 sq ft, or 75 sq ft/gal. For best results, use a notched trowel or squeegee to spread HyppoCoat 100 mixed material evenly over the entire deck, resulting in a minimum 22 ± 2 dry mils (812 \pm 50 microns) thick membrane. A phenolic core roller may be used, but extra care should be taken to prevent air bubbles. Allow HyppoCoat 100 to cure before proceeding. Recoats must be done within 24 hours of cure. Application will require more or less material depending on substrate conditions.

Time for thickening to a firm, tacky state is dependant on atmospheric and environmental conditions, especially temperature and humidity. Allow coating to cure 2-4 hours before proceeding to subsequent coats.

When HyppoCoat 100 is stiff enough to support weight without imprinting or denting the coating, or when coating is dry (approximately 2-3 hours), remove all loose aggregate by sweeping, vacuum, or by blowing excess aggregate off the deck. Make any touch up or repairs. Allow repairs to cure.



TOPCOAT APPLICATION

Light Pedestrian Traffic

Apply desired color of HyppoCoat TC at a rate of 3/4 gal/100 sq ft, or 133 sq ft/gal. This coat will result in an additional 12 ± 2 dry mils thick coating.

Broadcast and backroll 5-10 lbs/100 sq ft of 16-20 or larger mesh silica sand with a minimum 6.6 Mohs hardness scale. The amount of sand used will vary.

At 70°F and 50% relative humidity, allow a minimum of 16 hours and maximum of 48 hours for topcoat to cure.

Heavy Pedestrian Traffic

Apply desired color of HyppoCoat TC at a rate of 1.5 gal/100 sq ft, or 67 sq ft/gal. This coat will result in an additional 24 ± 2 dry mils thick coating.

Broadcast and backroll 5-10 lbs/100 sq ft of 16-20 or larger mesh silica sand with a minimum 6.6 Mohs hardness scale. The amount of sand used will vary.

At 70°F and 50% relative humidity, allow a minimum of 16 hours and maximum of 48 hours for topcoat to cure.

FINISHED SYSTEM

When applied as directed above, HyppoCoat 100 Decking System will provide a minimum 37 ± 5 dry mils (940 ± 125 dry microns) with 3/4 gallons of topcoat or a minimum 49 ± 5 dry mils (1244 ± 125 microns) with 1.5 gallons of topcoat, exclusive of aggregate, of superior waterproofing protection.

Coverage rates and cure times may vary depending on temperature, relative humidity, surface roughness and porosity, aggregate selection and embedment, and application technique. Coverage rates provided are optimal and are not guaranteed.

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HyppoCoat100PM | Pedestrian Traffic Deck System

		PRIMER	BASECOAT	AGGREGATE	TOPCOAT
LIGHT PEDESTRIAN	Water-Induced Urethane basecoat (TDI free) Light Pedestrian Traffic: 37 ± 5 dry mils (914 ± 125 dry microns) with topcoat exclusive of aggregate	HyppoCoat PC/PC+	HyppoCoat 100	Silica Sand	HyppoCoat TC
		Rate: 1 gal/300 sqft (300 sqft/gal) • 3 - 5 dry mils	Rate:1.5 gal/100 sqft(75 sqft/gal)• 22 ± 2 dry mils• Broadcast and backrollsilica sand aggregate	• 16 - 20 mesh <u>Rate:</u> 5 - 10 lbs/100 sqft	Rate: 0.75 gal/100 sqft (133 sqft/gal) • 12 ± 2 dry mils • Backroll silica sand aggregate
HEAVY PEDESTRIAN	Water-Induced Urethane basecoat (TDI free) Heavy Pedestrian Traffic: 49 ± 5 dry mils (1244 ± 125 dry microns) exclusive of aggregate	HyppoCoat PC/PC+	HyppoCoat 100	Silica Sand	HyppoCoat TC
		Rate: 1 gal/300 sqft (300 sqft/gal) • 3 - 5 dry mils	Rate:1.5 gal/100 sqft(75 sqft/gal)• 22 ± 2 dry mils• Broadcast and backrollsilica sand aggregate	• 16 - 20 mesh Rate: 5 - 10 lbs/100 sqft	Rate: 1.5 gal/100 sqft (67 sqft/gal) • 24 ± 2 dry mils

LIMITATIONS

Concrete:

The following conditions must not be coated with HyppoCoat 250 deck coating systems/products: Ongrade or below-grade slabs; Split slabs with buried membrane; Sandwich slabs with insulation; Slabs over unvented metal pan; Suspended pool/swimming pool; Asphalt overlays without the express written consent of Barrett. HyppoCoat 250 is not recommended over magnesite, gypsum lightweight, and where chained or studded tires may be used.

Concrete must exhibit 3000 psi minimum strength. An ICRI CSP 3 surface or greater is required for concrete surfaces to be coated. New concrete must be cured for 28 days unless otherwise approved by Barrett in writing. New surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids, and concrete droppings that would be mechanically detrimental to coating application or function. Light broom finished concrete should be power washed before coating application. Concrete cleaning and surface preparation may be completed by shotblasting or with the use of an appropriate cleaner. Peel and adhesion tests are highly recommended.

Plywood:

The only acceptable grade of plywood is APA-rated exterior grade or better. The appearance characteristics of the panel grade should be considered. Plywood should be new or cleaned and sanded.

HyppoCoat Decking Systems will not withstand rising water tables or hydrostatic pressure on slab-on-grade decks. Additionally, uncured materials are sensitive to head and moisture. A continuous coating application should ensure a deck with no lines or streaks, given the substrate is structurally sound and sloped for proper drainage. Barrett assumes no liability for substrate defects.

NOTE: All product literature (i.e., technical & safety data sheets, application instructions, etc.) is currently available to download from the "Resource Library" on our website.

For questions regarding detailed specifications, application information, or any other general inquiries, please reach out to your local Barrett Technical Representative. You can also call us directly at (800) 647-0100 or email us at info@barrettroofs.com

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