

# HyppoCoat 100

## Hybrid Polyurea/Polyurethane Deck Waterproofing System

### DESCRIPTION

HyppoCoat 100 is a 100% solids, self-leveling, rapid-curing, liquid applied hybrid polyurea/polyurethane waterproof deck coating system. The system utilizes one coat of our two-component **HyppoCoat 100** elastomeric coating as a basecoat. Depending on surface and aggregate, **HyppoCoat TC** hybrid aliphatic polyurea topcoat may also be used.

HyppoCoat 100 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.

### SURFACE PREPARATION

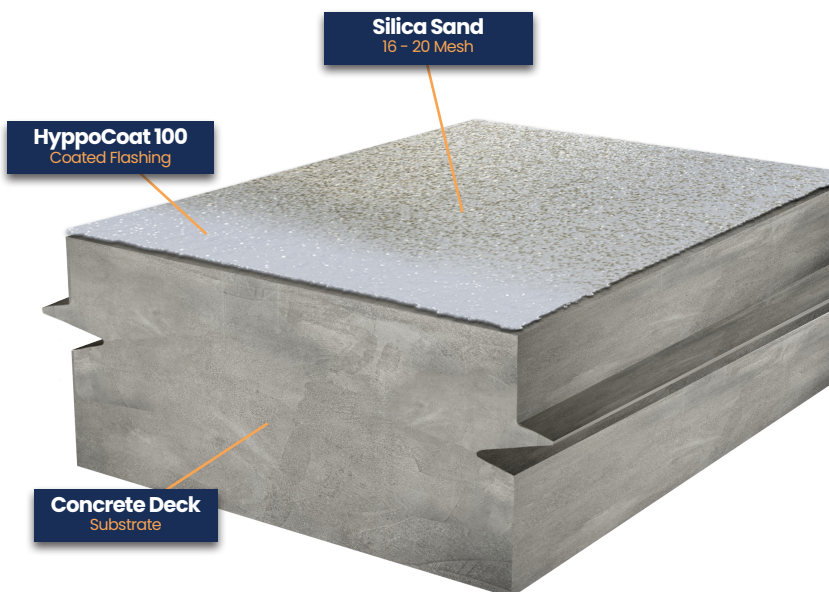
Check area of application to ensure that it conforms to the substrate requirements, as stated in the general guidelines section. Concrete surfaces require a medium sandpaper finish equal to or greater than an ICRI CSP #3. Surface preparation may be completed by shotblasting or the use of a sufficient 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 10–15 mil 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" & 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" & completely sealed with HyppoCoat 100.

Using a roller or squeegee, apply a layer of HyppoCoat 100 at a minimum of 125 mils over the entire assembly. The neoprene must be tightly pressed into the cove area. Install a termination bar with appropriate fasteners on 8" centers. Seal the top edge of all flashings and provide metal counterflashing.



ASTM INTERNATIONAL  
ASTM C-957  
ASTM C-579



### 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 proceeding 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

Pour Part B (1 gal) into Part A (4 gal) and mix thoroughly for approximately 2-3 min from bottom to top. Once thoroughly mixed, pour the material out in a stream along the short side of the deck. Using a notched trowel or squeegee, spread HyppoCoat 100 mixed material evenly over the entire deck at a rate of 25 sq ft/gal. A phenolic core roller may be used, but extra care should be taken to prevent air bubbles.

The potlife of HyppoCoat 100 is roughly 8-10 minutes. Throw all aggregate into the material after 12-14 minutes. 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.

Fill all deep pockets and heavily exposed aggregate surface areas until the rough aggregate is completely covered by the base coat. HyppoCoat 100 may be applied at any thickness in one application without gassing to fill in repair areas, spalls, and deep patching.

	PRODUCT	PACKAGING
PACKAGING	<b>HyppoCoat 100</b> Urethane Hybrid Base	<b>Kit</b> (5 Gal) Part A - Pail (4 Gal) Part B - Jar (1 Gal)
	<b>PolyFelt 125VP</b> Polyester Reinforcement Fabric	<b>Roll</b> (22 lbs) 39.4" x 327' 25 rolls/pallet

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.

### Slurry Mix for Patching & Sloping

Pour Part B (1 gal) into Part A (4 gal) and mix thoroughly for approximately 2-3 min from bottom to top. Add clean, wash dried, silica sand to desired viscosity.

**CAUTION:** Do NOT overload with sand. There should always be sufficient resin to bind the aggregates to the coating and ensure that the slurry is "trowelable".

Once thoroughly mixed, pour the material out in a stream along the short side of the deck. Using a notched trowel or squeegee, spread HyppoCoat 100 mixed material evenly over the entire deck at a rate of 25 sq ft/gal. Use xylene on the trowel to help form and shape the slope. A phenolic core roller may be used, but extra care should be taken to prevent air bubbles.

### Aggregate Broadcast

Roughly 12-14 minutes after the material has been applied, apply 64 mesh aluminum oxide into the wet base coat at a rate of 1-3 lbs/100 sq ft.