

HyppoCoat AP100

Asphalt-Extended Polyurethane Liquid Applied All-Purpose Membrane

APPLICATION	Liquid Applied Membrane
INSTALLATION	Two Component
TECHNOLOGY	Asphalt-Extended Aromatic Polyurethane

HyppoCoat 100AP is a two component, fast curing, low odor, NSF approved, asphalt-extended aromatic polyurethane all-purpose liquid applied base coating that adheres to most substrates to form a seamless, elastomeric waterproof membrane with excellent weatherability and proven protection.

HyppoCoat AP100 can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on these surfaces. Designed to expand and contract with normal structural movements, HyppoCoat AP100 is primarily used on: aged asphalt overlays of concrete decks; aged asphalt parking lots; built-up & modified asphalt roofs; single ply, plywood, concrete & metal surfaces.

When installed and maintained properly, HyppoCoat AP100 all-purpose waterproofing system will ensure years of service.



FEATURES

- Bridges Cracks & Joints
- Economical
- Aromatic
- Asphalt-Extended
- Fast Curing
- Low Odor
- High Resistance to Water & Various Aqueous Chemicals
- Excellent Weatherability
- Seamless
- UV Stable
- VOC Compliant
- NSF Approved

COLOR

Black (fades to dull black)

NOTE: In applications where NSF-61 approval is not required, HyppoCoat AP100 may be topcoated with HyppoCoat TC for a UV-stable color.



APPLICATIONS

- Parking Decks
- Single Ply Roofs
- Roof Decks/Coatings
- Polyurethane Foam
- BUR & Modified Roofs
- Corrosion Protection
- Pond & Tank Liners
- Potable Water Containment/Storage
- Asphalt Parking Decks

COVERAGE

27 mils

50
sq ft/gal

PACKAGING

5 Gal Kit



Part A
2 Gal Jar



Part B
5 Gal Pail



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PREPARATION

Refer to General and Safety Guidelines for complete information. Concrete surfaces require a medium sandpaper finish equal to or greater than an ICRI CSP #3. Surface preparation may be completed by shot blasting. Peel and adhesion tests are recommended.

Install a 100-200 sq ft (9.30-18.58 sqm) mockup of the system to be installed and approve for aesthetics, color, slip resistance, actual coverage rates and functionality before proceeding.

MIXING

Using a mechanical mixer, first pre-mix separately Part A and Part B base material thoroughly to obtain a uniform color, making sure to scrape the solids from the bottom and sides of the pail.

Pour Part A into Part B slowly while mixing, scrape the sides of the container. Mix the combined Parts A and B thoroughly for 3-4 minutes until uniform color is obtained. Use care not to allow the entrapment of air into the mix.

NOTE: HyppoCoat AP100 may NOT be diluted under any circumstances. Do NOT estimate; proportions are precisely premeasured for optimal results.

JOINTS, CRACKS, & FLASHING

Apply a single or two component non-gassing polyurethane sealant over all joints, cracks and flashing. Bridge the joints, cracks and flashing with 2.75 - 4" polyester or polyurethane foam tape, pushing the tape into the 20 mil pre-stripe of the basecoat.

Over reinforcement tape, apply a pre-stripe coat of HyppoCoat AP100 material and taper it onto the adjacent surface. Allow the surface to cure for around 1 to 2 hrs.

APPLICATION

Apply two coats of HyppoCoat AP100 at a rate of 4 gal per 100 sq/ft or 25 sqft/gal. Apply each coat directly to a clean dry substrate.

Application of HyppoCoat AP100 should not begin if surface temperature is below 50°F (10°C); temperature must be 5° F (3° C) above dew point. HyppoCoat AP100 cures very fast and should only be mixed with a minimum of 500 rpm drill. Do not apply HyppoCoat AP100 in direct sunlight, or when the ambient or substrate temperature is rising.

Spray equipment, squeegee, notched trowel or phenolic-resin-core roller may be used. If a roller is used, extra care should be taken not to trap air bubbles into the mixture. Apply HyppoCoat AP100 evenly over the entire deck at 60 wet mils (1524 microns). Most applications require only one coat, but if needed, HyppoCoat AP100 may be recoated no sooner than one (1) hour and no longer than four (4) hours after mixing. If HyppoCoat AP100 has cured for more than four (4) hours, the surface may need to be mechanically abraded before recoating.

HyppoCoat AP100 can also be combined with PolyFelt 125VP Polyester Reinforcement Fabric to form a two-coat reinforced system specially for roofing applications.

For specific coverage rates, please refer to the complete **HyppoCoat Systems Specification Chart**, which can be found in the Resource Library of the Barrett website. You can also contact your local Barrett representative directly.

COVERAGE RATES

Coverage rates and cure times will 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.

LIMITED WARRANTY: Barrett warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Barrett makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to The Barrett Company, LLC. Barrett to replace or to refund the purchase price of the quantity of Barrett proven to be defective, and Barrett shall not be liable for any loss or damage.



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CURING

Allow coating to cure for 24 hours for light traffic, or 72 hours for heavy traffic. HyppoCoat AP100 is sensitive to heat and moisture and this could accelerate the curing time. An allowable 32 oz (0.95 liters) of clean, water free mineral spirits per 4.5 gallon kit (subject to meeting local regulations) poured into the already mixed container immediately after mixing, will help extend the cure time. No other dilution is acceptable.

EQUIPMENT CLEANUP

Equipment should be cleaned immediately after use with an environmentally-safe solvent, as permitted under local regulations after use.

STORAGE

It is recommended that HyppoCoat AP100 be stored indoors at a temperature between 60-95°F (15-35°C).

SHELF LIFE

HyppoCoat AP100 has a shelf life of one year from the date of manufacture when stored in its original, factory-sealed container within the recommended setting.

TECHNICAL PROPERTIES

PROPERTIES	MEASUREMENT	TEST METHOD
ANSI/NSF	140°F (60°C)	ANSI/NSF 61
Elastomeric Waterproofing	Exceed Exceed	ASTM C-836 ASTM C-957
Solids (Volume)	95 ± 3%	ASTM D2697
VOCs	0.73 lb/gal	ASTM D2369-81
Mullen Burst Strength (1.50 mil)	155 psi (no break)	ASTM D75
Tensile Strength (100 mil sheet)	900 ± 100 psi	ASTM D75
Tear	150 ± 50 psi	ASTM D624
Extension to Break	450 ± 100%	ASTM D412
Membrane Weight, 60 mils (1.5mm WFT)	155 psi (no break)	ASTM D75
Recovery from 100% Extension	98% 100%	= After 5 min = After 24 hrs
Crack Bridging	>1/8" >1/4"	= 10 cycles @ -15°F = After Heat Aging
Weathering	Pass 5000 hrs	ASTM D822
Softening Point	>400°F	ASTM D36
Deflection Temp.	Pass	ASTM D648
Service Temp.	-60 to 200°F	-
Hardness (Shore A)	60 ± 5 (@ 77°F)	ASTM D2240
Water Vapor Perm (100°F, 100 mil sheet)	0.06 perm	ASTM D96
Abrasion Resistance (WL Taber Abrasion)	7.2 mg loss	ASTM D4060
Electrical Resistivity (50% RH @ 75°F)	3.86 x 10 ¹⁴ ohm. cm	ASTM D257
Adhesion to Concrete (Dry; Elcometer)	350 psi	-
Hardening Time (200 g @ 77°F)	24 hrs (max)	-
Set Time to Polyurethane Film	4 hrs	ASTM D164, p5.3.2
Pot Life @ 77°F	18 - 20 min	-

APPROVALS



Certified to NSF/ANSI 61



ASTM INTERNATIONAL

ASTM C-836

ASTM C-957

LIMITED WARRANTY: Barrett warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Barrett makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to The Barrett Company, LLC. Barrett to replace or to refund the purchase price of the quantity of Barrett proven to be defective, and Barrett shall not be liable for any loss or damage.



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HyppoCoat AP100 VM | Vehicular Traffic Deck System

	PRIMER	BASECOAT	REINFORCEMENT	2ND COAT	AGGREGATE	TOPCOAT
AP100 VM	HyppoCoat PC	HyppoCoat AP100	PolyFelt 125VP	HyppoCoat AP100	Silica Sand	HyppoCoat TC
	Rate: 1 gal/300 sqft (300 sqft/gal) • 4 ± 1 dry mils	Rate: 3.3 gal/100 sqft (30 sqft/gal) • 47 ± 5 dry mils	• 1 Ply • Broom into place without voids	Rate: 2.5 gal/100 sqft (40 sqft/gal) • 35 ± 5 dry mils	• 16 - 20 mesh Rate: 50 - 60 lbs/100 sqft	Rate: 1.4 gal/100 sqft (70 sqft/gal) • 20 ± 2 dry mils

HyppoCoat AP100 RCS | Roof Coating System

	PRIMER	BASECOAT	REINFORCEMENT	2ND COAT	AGGREGATE	TOPCOAT
AP100 RCS	HyppoCoat PC	HyppoCoat AP100	PolyFelt 125VP	HyppoCoat AP100	Silica Sand	HyppoCoat TC
	Rate: 1 gal/300 sqft (300 sqft/gal) • 4 ± 1 dry mils	Rate: 2 gal/100 sqft (50 sqft/gal) • 28 ± 5 dry mils	• 1 Ply • Broom into place without voids	Rate: 2 gal/100 sqft (50 sqft/gal) • 28 ± 5 dry mils	• 16 - 20 mesh Rate: 50 - 60 lbs/100 sqft	Rate: 1.25 gal/100 sqft (80 sqft/gal) • 17 ± 2 dry mils

LIMITATIONS

- Do not apply HyppoCoat AP100 in wet weather or if rain is imminent; Coating should not become wet within four (4) hours after application
- Containers that have been opened must be used as soon as possible to prevent wasted/contaminated material
- Do not dilute under any circumstance except as noted above

The following conditions must not be coated with HyppoCoat Trafficable Systems/products:

On-grade 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 AP100 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.

— WARNING —

This product contains isocyanates, asphalt, & solvent.

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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