

HDC-100™

TECHNICAL DATA SHEET



SKU: 220-0000-3



HDC-100™ IS A ULTRA HEAVY-DUTY MOISTURE-CURE URETHANE TOPCOAT SYSTEM. It exhibits an extremely long working time and dries within 10-12 hours. It is best suited as a topcoat and available with a semi-gloss or satin sheen with a variety of texture options. Engineered for superior scratch and chemical resistance, HDC-100 is one of our most versatile and durable industrial flooring wear surfaces. The material is HDC 100 is low in VOCs and virtually odor-free.

USES:

- » Heavy traffic industrial floors
- » High foot traffic commercial
- » Aviation hanger topcoats
- » Automotive shop flooring

ADVANTAGES:

- » Long working-time
- » Low VOC
- » High abrasion resistance
- » UV Stable

PACKAGING & SHELF-LIFE

HDC-100 is available in the following kits:

- » 1.08-gallon kit (.85-gallons part A in a one-gallon pail + 0.23-gallons part B + 3.38 lb part C

Shelf-Life::

- » 24 months factory sealed and stored at room temperature.

SUGGESTED APPLICATION:

- » Apply at thickness of 3 mils dry as topcoat in conjunction with HDC-100 aggregate.

ANCILLARY PRODUCTS:

- » For pigmented applications, add in 1-pint of Resinwerks Urethane Pigment.
- » Available in Semi-Gloss or Satin Finishes
- » Use as a topcoat over Resinwerks systems. Please contact Resinwerks to verify acceptable applications.

MATERIAL COVERAGE

WET FILM THICKNESS	DRY FILM THICKNESS	APPROXIMATE COVERAGE
3.2 mils wft	3 mils dft	509 ft ² / gallon (12.5m ² /L)

GENERAL PRODUCT INFORMATION

Colors: Clear and Pigmented

Solids Volume: 95%

V.O.C.: Clear: 48 g/l

Pigmented: 81 g/l

Pot-life: 90 Minutes @ 72° F

Mix-Ratio: Mix Full Kit or 1/2 Kits only

Cure Schedule: 72° F @ 50% R.H.

To touch: 6-8-Hours

To re-coat: 6-8 Hours Minimum
24-Hours Maximum

Foot Traffic: 6-8-Hours

Heavy Traffic: 24-Hours

Clean-up: Acetone / MEK

Application Temp: 50°F(10°C) - 90°F(32.2°C)

Environment: For Interior Use Only

GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Hardness	ASTM D-2240 Shore D	92
Taber Abrasion	ASTM-D-4060	16 mg loss
Tensile Strength	ASTM C-307	3,200 psi
Flammability	ASTM D 635	Self extinguishing
Impact Resistance	ASTM D 2794	180 lb
Flexibility 1/4" cylindrical mandrel	ASTMD 522	Pass
Adhesion	ASTMD-4541	500+ PSI concrete fracture
Coefficient of Friction	ASTM-D 2047	>0.6 / pass



SURFACE PREPARATION

HDC-100™ is intended for use as topcoat and is not designed for direct to concrete application. When applying HDC-100 on top of existing coatings, ensure that the previous layer to be coated is clean, dry and free of any dust or contaminants. For applications over existing smooth surfaces, the area to be coated should be to be sanded and tacked (solvent wiped) prior to application. Inter-coat adhesion with other coatings should be tested and verified prior to application as per ASTM D3359.

MOISTURE IN CONCRETE

HDC-100 is not intended for use as a primer. For more information regarding moisture in concrete please contact your local Resinwerks representative.

DE-GREASING OF CONTAMINATED SUBSTRATES

HDC-100 should not be applied over contaminated surfaces. For previously contaminated surfaces, areas to be coated should be heavy sanded or ground. All dust and remaining contaminants should be completely removed prior to coating.

TREATMENT OF JOINTS & CRACKS

Prior to installation of any Resinwerks primer, all joints, cracks and other substrate irregularities must be addressed. For more information on specific joint treatment procedures, please contact your Resinwerks technical services representative.

MIXING INSTRUCTIONS:

- » Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 50°F(10°C) - 90°F(32.2°C)
- » Thoroughly agitate both part A and Part B separately prior to mixing. Mix complete kit for two minutes using a slow speed jiffy mixer. While mixing pour complete contents of HDC 100 aggregate into mix, taking care to properly suspend all aggregates.
- » For pigmented coatings, post-add Resinwerks Urethane at a rate of 1 pint per kit.

APPLICATION INSTRUCTIONS

- » Apply HDC 100 at a rate of approximately 500 square feet per gallon by pan rolling with a 3/8" - 1/4"(10 mm) nap roller.
- » For proper appearance, dip the roller in the coating and lightly roll out excess in the application tray. Take care to spread the material evenly and immediately back-roll in a perpendicular fashion.
- » Frequently agitate material in both the pan and mixing vessel during application process to keep aggregates properly suspended.

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LIMITATIONS

- » Do not apply over concrete experiencing ASR
- » Do not apply over Acrylics or MMA Coatings
- » Do not apply over existing coatings / sealers that have not been properly abraded and cleaned.
- » Do not apply to new slabs < 28-days old
- » Do not apply over areas wiped with denatured alcohols
- » Do not apply to concrete < 3500 PSI compression strength
- » Do not apply product when ambient or room temperature is below 40°F (4.4°C) or over 90°F(32.2°C) or if the relative ambient humidity is above 85%.
- » This product is not recommended for immersion service.
- » DEW POINT: Do not apply when dew point is within 5°F of the ambient temperature.

MAINTENANCE

The long-term performance, appearance, and life expectancy of wear surface products are dependent on an adequate routine maintenance program designed specifically for the installed wear surface. Resinous floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. Recommended maintenance programs consist of frequent and thorough cleaning utilizing a neutral PH cleaner. The frequency of washing will vary depending on floor usage type, traffic and age. Please contact your local Resinwerks technical representative for more information.

NOTES

Thoroughly read all Material Safety Data Sheets prior to use and maintain copies on job-site at all times.

Mock-ups and field test areas are strongly recommended in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system. Resinwerks does not guarantee compatibility or adhesion with products not manufactured by Resinwerks.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of Urethane products may lead to fish-eyes, blistering, pinholes, wrinkling, or out-gassing of air in the concrete and are not product defects.

TECHNICAL ASSISTANCE

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