KINETIC 85™

TECHNICAL DATA SHEET

Kinetic™ 85 is an 85% solids, fast-curing aliphatic polyaspartic polyurea formulated for use as a topcoat, primer, or mid-coat in a wide range of resinous flooring systems. It combines extended working time with rapid return-to-service capabilities, making it ideal for time-sensitive installations. Kinetic™ 85 is completely UV stable and offers outstanding abrasion and chemical resistance, delivering a durable, high-performance finish.

Kinetic 85 is also avaiulable in a "slow-set" formula for extended working times in hot and humid conditions. It is available in a clear gloss finish and can be pigmented using Resinwerks post-add universal pigments to achieve a variety of color options.

USES:

- Commercial & Industrial Flooring
- Primer, Mid and Topcoat
- Urethane Mortar Topcoats
- FDA/CFSAN compliant

ADVANTAGES:

- **Low VOC**
- Reasonable working time
- 1-2 hour walk-on time
- High abrasion resistance
- UV Stable

PACKAGING & SHELF-LIFE

Kinetic™ 85 is available in the following kits:

- 10-gallon kit (5-gal part A and 5-gal part B)

Shelf-Life::

- 24 months factory sealed and stored at room temperature.

ANCILLARY PRODUCTS:

- May be used in conjunction with all Resinwerks materials
- For pigmented coatings, post-add Resinwerks universal pigments at 10-12-oz per gallon.

SUGGESTED APPLICATION:

- Concrete Primer: Apply to properly profiled concrete.
- Broadcast Coat: Broadcast Quartz or Chip media into wet film
- Grout Coat: Apply over chip, quartz or sand broadcast
- Top-Coat: Apply over existing epoxy or polyaspartic coating

MATERIAL COVERAGE

DRY FILM THICKNESS	APPROXIMATE COVERAGE	APPROXIMATE KIT COVERAGE
6 mils dft	226 ft² / gallon (5.55m™/L)	2,260 ft² (50.6m™/L)
8 mils dft	170 ft² / gallon (4.17m™/L)	1,700 ft² (41.7m™/L)
10 mils dft	136 ft² / gallon (3.34m™/L)	1,360 ft² (33.4m™/L)

GENERAL PRODUCT INFORMATION

Colors:	Clear,
Solids Volume:	85%
V.O.C.:	61 lb/gal 73.42 g/l
Pot-life:	20-Minutes @ 72° F and 50% RH
Mix-Ratio:	1-Part A to 1-Part B by volume.
Cure Schedule:	72° F @ 50% R.H.
	To touch: 1-2-Hours
	To re-coat: 2-Hours Minimum
	24-Hours Maximum
	Foot Traffic: 3-5-Hours
	Heavy Traffic: 12-Hours
Clean-up:	Acetone / MEK
Application Temp:	30°F(-1.1°C) - 90°F(32.2°C)

GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Hardness	ASTM D-2240 Shore D	86
Taber Abrasion	ASTM-D-4060	32 mg loss
Tensile Strength	ASTM C-307	3,400 psi
Flammability	ASTM D 635	Self extinguishing
Impact Resistance	ASTM D 2794	160 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

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SURFACE PREPARATION

Ensure substrate to be coated is clean, dry, and in sound condition. All laitance, curing compounds, concrete hardeners, and other surface contaminants must be removed. Prepare concrete in accordance with ASTM D 4259-83. Mechanical shot blasting or grinding is recommended to achieve a surface profile of ICRI CSP 2-3. Surface to be coated must be completely porous and free of excessive dust & contaminants.

MOISTURE IN CONCRETE

Concrete slabs should be tested prior to application for elevated moisture vapor emission levels. Resinwerks recommends ASTM F2170-19 standard for determining relative humidity in concrete slabs using RH probes. For slabs exhibiting elevated moisture levels in excess of 75% RH, Resinwerks™ Vapor Barrier Epoxy should be substituted as a primer. For more information, please contact your Resinwerks technical representative.

DE-GREASING OF CONTAMINATED SUBSTRATES

For concrete substrates containing oil, animal fats, or other carbon based contaminants, slabs should be de-greased appropriately using an enzymatic based concrete de-greasing agent. Multiple applications may be required depending on the level of contamination. For more information, please contact your Resinwerks technical representative. .

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 30°F(-1.1°C) - 90°F(32.2°C)
- Mix 1-part A to 1-Part B by volume for 90-120 seconds using a slow speed jiffy mixer, taking care not to create a vortex and induce excess air.
- For pigmented coatings, post-add Resinwerks Urethane at a rate of 12 oz per gallon

APPLICATION INSTRUCTIONS

- Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a squeegee or seal-coat broom. Immediately back-roll in a direction perpendicular to your initial ribbon with a 3/8” nap roller. Working time and cure schedule will be dependent on ambient temperature and humidity. Material will be dry to the touch and ready for subsequent coats within approximately 2-3-hours following application. Contact Resinwerks directly for additional application specifics.

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.
- D 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 32°F (0°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.

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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RESINWERKS™ FLOOR COATING SYSTEMS