

Perdure PU85

polyurea-polyurethane coating



DESCRIPTION

Perdure PU85 is a two-component high-solids polyurea polyurethane coating formulated to be used in high-traffic areas. It is a very low VOC, no odor, flexible and impact resistant, and UV stable coating. It cures rapidly, allowing for a quick return to service. Its enhanced cross-linking properties create excellent adhesion to the concrete substrates.

ADVANTAGES

- Self-Priming
- Rapid cure, Quick return to service
- High impact resistance
- Excellent bond with substrates
- Simple Mix ratio (1:1)
- Resistant to fading (UV stable)

IMPORTANT CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F
- Substrate must be free of dirt, waxes, curing agents and other foreign materials
- Do not apply over damp or wet substrates
- Avoid applications on surfaces with active moisture vapor transmission

COMPOSITION

Two-component Polyurea-Polyurethane

SURFACE PREPARATION

1. The substrate must be free from any dirt, grease, oil and other contaminants.
2. A CSP of 3 or 4 must be achieved before applying Perdure PU85
3. Ensure that the substrate temperature is at least 50°F
4. The substrate must be free from any moisture vapor emission
5. Address cracks in the concrete substrate before applying Perdure PU85

INSTALLATION STEPS

1. Mix Part A with Part B at 1:1 mix ratio
2. Mix only that amount that can be used within 15 minutes
3. Add the desired amount of color after mixing Part A and Part B for 30 to 45 seconds. Mix again for 1 to 2 minutes to achieve a homogenous mix.
4. Pour the mixed material onto the substrate immediately after mixing. Leaving the mixed material in the container reduces the pot life significantly. For color consistency from batch to batch, Part A can be mixed with color before mixing with Part B.
5. Pour the mixed material into 8 to 12" wide strips and spread it with a notched squeegee to achieve the desired thickness. Immediately back-roll the spread material with a 1/4" to 3/8" nap roller.
6. Precut the edges of the floor with a chip brush.
7. For decorative floors broadcast resin chips or Kwartz within 15 minutes of spreading the material
8. Allow Perdure PU85 to cure for at least 4 to 6 hours before proceeding to the next step.
9. The working time will be reduced under high temperatures and/or humid conditions

CLEAN UP

Clean skin with soap and warm water. Tools and equipment should be cleaned with Xylene or lacquer thinner. Consult SDS for safety and health precautions.

COVERAGE

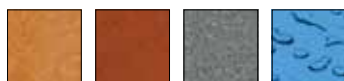
One gallon of Perdure PU85 covers 150 to 160 sq.ft, at 10 mil thickness.

PACKAGING

Perdure PU85 is available in 2.0 gal and 10.0 gal Kits.

TECHNICAL SERVICE

Duraamen Engineered Products provides series and consultations, selection, specification, troubleshooting and other information on the proper repair and protection of surfaces.



TECHNICAL DATA

	Category	5°C (40°F)	20°C (70°F)	30°C (85°F)
Drying time	Set-to-touch	5 hours	1.5 hours	1 hour
	Dry-through	18 hours	6 hours	4 hours
	Pot life	30 minutes	20 minutes	10 minutes
	Over-coat (Min.)	-	8 hours	6 hours
	Over-coat (Max.)	-	24 hours	18 hours

The above drying times have been measured under laboratory conditions and may vary depending on the construction site.

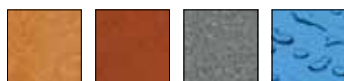
Viscosity	Not Applicable	Color	Clear
Specific gravity	approx.. 1.08 (mixture)	Solid volume	approx. 85%
Mixing ratio	A / B = 1 / 1 (Volume ratio)	Shelf life	12 months indoor storage at 5~35°C (40°~95°F)
VOC	50 gram/liter		

Product Properties (Physical Property Data)

Adhesion	600 (psi) (substrate ruptures)	Hardness	Shore D 60 ± 10
Tensile strength	> 2000 (psi)	Tear strength	> 50 (N/mm)
Abrasion resistance	< 150 (mg) (ASTM D4060 CS17/1000cycles/1000g)	Elongation at break	50~100%

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duraamen engineered products, inc.

20 Haypress Road, Suite 233 Cranbury, NJ 08512 | duraamen.com | info@duraamen.com | 1.866.835.6595