

DESCRIPTION

Perdure U45 is a two-component water-based aliphatic (non-yellowing) polyurethane. *Perdure U45* is free of the health and environmental problems normally found in solvent-based urethanes, while maintaining excellent performance properties. It is a high performance coating for use in a variety of seamless floor and wall coating systems.

Perdure U45 polyurethane provides a matte finish. *Perdure U45* has good chemical, stain, and mar resistance. In addition, it's easy to clean and has excellent color retention under heavy foot traffic. It is ideal for topcoats and finishes that require high abrasion resistance. Typical application areas include clean rooms, hospitals, pharmaceutical facilities, stained concrete, wood floors and as a seal coat for most *Duraamen's* floor and wall coating systems.

ADVANTAGES

- Low odor during application and cure
- Fast dry and re-coat time
- Low VOC
- Excellent adhesion
- Excellent abrasion resistance

COMPOSITION

- *Perdure U45* is a polyester resin/aliphatic polyisocyanate

COLOR SELECTION

- *Perdure U45* is available in CLEAR and pigmented colors

APPLICATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in *Duraamen's* Technical Bulletin # 1. Work must be performed by trained or experienced contractors or maintenance personnel. The *Duraamen* Company's service department is pleased to answer any technical questions.

INSTALLATION

Mix each component of *Perdure U45* prior to combining together. Mix 4 parts of Part A with 1 Part B and allow to stand 15 minutes before applying for viscosity adjustments.

Mix only that amount of material that can be used in a two hour period. In hot weather, plan work for the cooler times of the day.

If using less than full units, proportion the amounts carefully and mix for at least 2-3 minutes using a low speed drill, scraping the bottom and sides for the mixing vessel. **DO NOT ADD WATER.**

For complete installation instructions, contact your *Duraamen* representative.

CLEAN UP

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

COVERAGE

Perdure U45 yields 275-300 ft² per gallon at 2 mils dry film thickness. Thicker application may result in bubbling in the cured film. Recoat time is approximately 3-4 hours at 77°F. Keep a wet edge at all times.

MAINTENANCE

After completing the application of *Perdure U45*, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly.

Perdure U45 is easily cleaned with neutral soaps or detergents.

AVAILABILITY

Perdure U45 is available throughout the United States and Canada. Contact *Duraamen* representative in your area for details.

TECHNICAL SERVICE

Duraamen Building & Allied Products, Inc. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces.

TECHNICAL DATA

Viscosity after 15 minutes at 77°F	500 – 600cps
Viscosity after 30 minutes at 77°F	600cps
Mixing Ratio - Clear	4 parts A to 1 parts B by volume
Solids Content - clear	43% by volume
Volatile Organic Content	0.10 lb/ga
Pot life	1 ½ - 2 hr @ 77°F, 1qt 45min @ 95°F, 1qt

Wait 15 -20 minutes after mixing to start application. Viscosity will decrease with time. DO NOT ADD WATER.

CURE/DRY TIME

Dry to Touch	2hours @77°F, 50%RH
Re-Coat 4	hours @77°F, 50%RH
Light Traffic	16-24 hours @77°F
Full Cure	4-5 days

PERFORMANCE PROPERTIES

Gloss, 60°F - Clear	Matte Finish
Tabor Abrasion, 1000gm load, 1000 cycles, CS-17 Wheel	45mg. loss
Impact Strength ASTM-D-2794 Direct Reverse	160in.lbs. 160in.lbs.

WARRANTY

Duraamen Building & Allied products, Inc. warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of *Duraamen*. If any product fails to meet this warranty, the liability of *Duraamen* will be limited to replacement of any non-conforming material if notice of such non-conformity is given to *Duraamen* within (1) one year of delivery of materials. *Duraamen* may in its discretion refund the price received by *Duraamen* in lieu of replacing the material. No customer, distributor or representative is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of *Duraamen*. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. *Duraamen* reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. DURAAMEN'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND DURAAMEN SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY OTHER THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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