

Perdure U45

water-based aliphatic polyurethane (matte)



DESCRIPTION

Perdure U45 is a two component water-based aliphatic (non-yellowing) polyurethane topcoat for concrete and wood surfaces. It is free from the health and environmental problems normally found in solvent-based polyurethanes, while maintaining excellent performance properties. It is a high performance coating for use in variety of seamless floor and wall coating systems. Perdure U45 provides a matte finish suitable in areas like clean rooms, hospitals, pharmaceutical facilities, stained concrete and wood floors.

ADVANTAGES

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

SUBSTRATE REQUIREMENTS

- Substrate temperature must be a minimum of 50° F and relative humidity below 85% for proper curing.
- Substrate must be free of dirt, waxes, curing agents and other foreign materials
- Cure times will be extended in conditions of high humidity and poor ventilation

COMPOSITION

Perdure U45 is formulated based on aliphatic polyisocyanate.

COLOR SELECTION

Perdure U45 is available in clear formulations only.

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.

INSTALLATION STEPS

- Mix each component (Part A and Part B) separately prior to combining.
- Mix 6 Parts A with 1 Part B. Mix for 1 to 2 minutes. Add 20% water and mix again for at least 2 to 3 minutes with a slow speed drill and paddle.
- Mix **ONLY** the amount of material that can be used in 60 minutes!
- In hot weather conditions work during the cooler times of the day.

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 covers 7 to 8 m² per liter at 50 microns dry film thickness. Thicker applications may result in bubbling in the cured film. Recoat time is approximately 8–10 hours at 24°C. Application of at least two coats is recommended in high traffic areas like restaurants, retail shops, schools, etc.

MAINTENANCE

After completing the installation, the applicator 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. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Treating the surface with a floor finish (Smartgard) is optional. Long periods of heavy traffic may cause wear patterns necessitating application of a finish coat. **DO NOT** leave any type of tape on the sealer for more than 5 to 10 minutes. Test first in an inconspicuous area for compatibility between the tape and the sealer.

TECHNICAL SERVICE

Duraamen International FZ-LLC. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces.

SYSTEM PERFORMANCE PROPERTIES

Technical Data		
Pot Life	120min @ 20°C	60min @ 30°C
Dry to Touch	1 hours @ 20°C	1 hour @ 30°C
Walkable	18 hours @ 20°C	12 hours @ 30°C
Solid Content (vol)	39+/-3% (Mixed)	
Mix Ratio	A:B :: 6:1 (by Volume)	
Dilute	With Water 20% (by volume)	
VOC	< 30g/lt	

IMPORTANT! Store in a cool ventilated place. Shelf life is 12 months from the date of manufacture.

CAUTION! SAFETY INFORMATION

USE ONLY WITH ADEQUATE VENTILATION. WEAR PROTECTIVE CLOTHING AND EYE PROTECTION. This product may cause eye, nose and throat irritation. Avoid contact with eyes and skin. Avoid inhaling vapors and spray mist. Open windows and doors to ensure fresh air entry during application and drying. If you experience headaches, dizziness, eye watering or irritation, introduce more fresh air. A properly used respirator (NIOSH approved for organic vapor with P series particulate pre-filter) will offer additional protection. Seek professional advice before using a respirator. A dust mask does not provide protection against vapors. Avoid contact with eyes and skin. Wash thoroughly after handling. Close the container after each use.

FIRST AID: If you experience difficulty breathing, leave the area immediately and seek fresh air. If breathing difficulty continues, seek immediate medical attention. In the case of eye contact, immediately flush eyes with water for at least 20 minutes and get medical attention. If skin comes into contact with the product, wash the contact area thoroughly with soap and water. If swallowed, get immediate medical attention. KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY!

WARRANTY

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