

UV-CURE POLYURETHANE FLOOR SYSTEMS



What is a UV-Curable coating?

Coatings cured with UV light are the latest technical advancement. This type of coating is the only solution to offer an immediate return to service for an area that is coated. KOSTER UV Cure Coat is a roller applied 30% solids, single component UV curable polyurethane thin film system. It is a waterborne un-pigmented coating system, typically applied 0.5 to 1 mils thick. It is designed for application over linoleum, LVT, and VCT and wood.

Common Commercial Floor Coatings

Material	Cure Speed	Price	VOC	Ease of Cleaning	Pot Life	Exterior Durability	Abrasion Resistance
UV-Cure	Instant	Moderate	Zero	Excellent	Long	Yes	Excellent
Wax	3 Hours	Moderate	Low or Zero	Moderate	Long	No	Poor
Epoxies	12 Hours	Low	Low or Zero	Moderate	1-4 hours	No	Moderate
Urethane	6 Hours	Moderate	Low or Zero	Moderate	< 1 hour	Yes	Good

KOSTER UV-Cure Polyurethane



The KOSTER UV-Cure Floor Coating is a roller applied 30% solids, single component UV curable polyurethane thin film system.

Technical data:

Packaging:	5 gal canister
Working time:	15 min (at 70°F)
Pot Life:	Not Applicable (at 70°F)
Dry Time:	30 min-1 hour (depending on humidity)
Spread rate:	600 ft ² /gal
Article Number:	CT 240 005

CASE STUDY: UV-Curable coating on 6 year old VCT tile



A high traffic meeting room adjacent to a garage and a locker room, where utility workers enter in the mornings and at end of their shifts. The customer was frustrated with repeatedly waxing the floor in order to keep it clean and looking good.

To solve this problem. The contractor applied KOSTER UV-Cure to the prepared surface.

The surface is immediately ready to receive traffic.

PROJECT:

Hancock Wood Electric Cooperative North
Baltimore, Ohio

CONTRACTOR:

Edward L Meyers, Inc.
Findlay, Ohio



Why KOSTER UV-Curable Flooring Systems?

MATERIAL PROPERTIES:

- VOC Compliant
- Low Odor
- Excellent Black Heal Mark Resistance
- Excellent Adhesion
- Good Impact Resistance
- Good Chemical Resistance
- Traffic Ready Instantly
- Quickly Re-coatable
- Easy Maintenance

SURFACE PREPERATION:

Floors receiving KOSTER UV-Cure Coat must be sound, solid, and free of materials or contaminants that may act as bond breakers. Light sanding with a 3M 7200 black abrasive pad may be required.

APPLICATION:

Pour and roll method:

1. Pour premixed material onto the floor in ribbons.
2. Saturate a 3/8 in. non-shed nap roller with the material.
3. Use the nap roller to spread the material perpendicular to the ribbon. Make sure the material is spread uniformly and evenly.
4. Allow material to dry (typically 1 hour).
5. Repeat the process 2 additional times for a 3 coat application before UV curing.

Curing KOSTER UV-Cure Coat:

1. The material must be dry before it is UV cured. It is dry when it can be touched without any transfer to the hand, typically 1 hour depending on ambient and substrate conditions.
2. Use KOSTER KURE 3000 UV cure lamp to cure the coating. Wear specified personal protective equipment to avoid UV exposure to skin and eyes. Switch the machine on and push it over the coated area. Pace the machine steadily at 30 ft/minute.
3. The film will cure instantly as the UV head passes over the coating.
4. Note the area that you have treated to assure complete coverage with the lamp.



EASY MAINTANANCE:

Use KOSTER Floor Detergent or a customary neutral pH cleaner and degreasing agent for general cleaning and spot cleaning. Follow instructions of the manufacturer of the cleaner. There is no need to buff, strip, or re-apply UV-cure coat within two years if properly maintained.

APPLICATION PROCESS



SURFACE PREPARATION



FLOOR READY TO RECEIVE COATING



3 COAT ROLLER APPLICATION



UV-Cure Process



Service you can depend on.

With our large distribution and service network in the US and Canada, KOSTER American offers professional advice and technical support for flooring needs, waterproofing applications, and where water vapor and pH are a problem. Call your local KOSTER Representative today!

For further information, please contact:



KOSTER AMERICAN CORPORATION | 2585 Aviator Drive | Virginia Beach, VA 23453
Phone: (757) 425-1206 | Fax: (757) 425-9951 | info@kosterusa.com | www.kosterusa.com