



PRODUCT DESCRIPTION

Themecoat® 105 is a waterborne UV-stable, aliphatic polyurethane topcoat/sealer coat. This waterborne coating has been specially formulated as a durable, color stable, abrasion-resistant topcoat for wood and for resealing existing polyurethane/polyurea surfaces.

Themecoat® 105 possesses an excellent balance of tensile strength, flexibility, toughness and abrasion resistance. The flexibility built into the polymer structure allows the coating to move with the substrate in conditions of temperature. It can also be used as a top coating over polyurethane and epoxy seal coats and base membranes.

This product does meet VOC requirements for SCAQMD areas.

FEATURES

- Excellent Color Retention
- Excellent Flexibility and Impact Resistance
- Excellent Weatherability
- UV Stable
- Waterborne

TYPICAL USES

- Concrete
- Heavy Pedestrian Traffic
- Plywood
- Re-sealing Existing Polyurethane Surfaces
- Vehicular Traffic

PACKAGING

1 gallon (3.74 liters) can

5 gallon (18.9 liters) pail

55-gallon kit (filled 50 gallons, 189 liters) drum

COLORS

White, Black and Clear with Matte and Gloss Finish.

Custom colors are also available. Minimum order of 250 gallons (945 liters). See color chart for special provisions. Contact Polycoat Products for more information.

SURFACE PREPARATION

When used as a top coat over polyurethane or epoxy coatings, the following apply: Epoxy coating must be top coated within 24 hours of initial application. Surface must be clean and free of all contamination and possible exudation – which can occur when epoxies are cured in cool or damp conditions. Polyurethane coatings can be top coated as soon as the base is cured enough to walk on. If kept clean and covered, the polyurethane base can be topcoated any time within 4 hours after initial application.

Apply to surfaces at temperatures between 60-170°F (15.6-76.7°C).

TECHNICAL DATA (Based on Draw Down Films)

Theoretical Coverage	520 ± 10 sqft/gallon @ 1 dry mil
Tear Resistance, Die C, ASTM D-624	400 ± 50 pli (70 kN/n)
Tensile Strength, ASTM D-412	4200 ± 300 psi (28.9 ± 2.1 MPa)
Ultimate Elongation, ASTM D-412	300 ± 50%
Specific Gravity	1.02
Total Solids by Weight, ASTM D-2369	37 ± 2%
Total Solids by Volume, ASTM D-2697	34 ± 2%
Viscosity at 75°F (24°C)	60 ± 10 KU
VOC, ASTM D-2369-81	0.375 lb/gal (45 gm/liter)
% Gloss at 15.5°C (60°F), ASTM D-2457	15% ± 3
Pencil Hardness	H
Taber Abrasion Resistance, ASTM D-4060	30-32 mg loss

For surface temperatures outside of these parameters consult Polycoat Products technical service.

Allow the Sealer to dry between coats depending upon heat and humidity. Allow 24 hours for light traffic and 48 hours for heavy traffic.

HANDLING

Themecoat® 105 is dispersed in water, and therefore can be thinned by slowly adding purified water with thorough mixing. Only minor thinning should ever be needed. Thinning will increase the drying and curing time. Equipment can be cleaned with soapy water before the coating dries. If the coating is left to dry it is very difficult to remove.

Themecoat® 105 is not freeze/thaw stable, ie, do not allow to freeze.

Please read all information in the general guidelines, product data sheets, guide specifications and safety data sheets (SDS) before applying material.

STORAGE

Themecoat® 105 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers. For best shelf life store it between 40-100°F (4.4-37.8°C).



LIMITATION

Surfaces must be dry, clean and free of foreign matter.

Surface may be slippery when wet. Containers that have been opened must be used as soon as possible.

DO NOT STORE OUTSIDE

WARNING

This product contains Isocyanates and Solvent.

Refer to SDS for all safety information.

Limited Warranty: Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data, instructions, and project specific recommendations.

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products' current published physical properties. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Polycoat Products shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Polycoat Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

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