



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

THEMECOAT® 105

Waterborne Aliphatic Urethane
Polyurea Sealer Coat

DESCRIPTION

Themecoat® 105 is a waterborne U.V.-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 re-sealing 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

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

TYPICAL USES

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

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.

PACKAGING

- 1 gallon (3.78 liter) can
- 5 gallon (18.9 liter) pail
- 55 gallon drum, net fill 50 gallons (189 liters)

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.

APPLICATION INSTRUCTION

Apply to surfaces at temperatures between 60°F and 170°F. 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.

TECHNICAL DATA

Theoretical Coverage	520±10 sq.ft./gallon at 1 dry mil
Tear Resistance, Die C, ASTM D-624	400 ± 50 pli 70.1 ± 8.8 kNm
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 24°C (75°F)	60 ± 10 KU
Volatile Organic Compounds	
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-D4060 (CS17 wheel, 1000 cycles, 1000 gm load)	30-32 mg loss

Note: Above physicals are from lab drawn films. Actual spray physicals may vary

HANDLING AND STORAGE

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 material safety data sheets(MSDS) 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°F and 100°F.

LIMITATIONS

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

For Application, surface temperature must be above 60°F.

Surface may be slippery when wet.

Containers that have been opened must be used as soon as possible.

WARNING

This product contains Isocyanates and Solvent.

Refer to MSDS for all safety information.

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

LIMITED WARRANTY

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products current published physical properties. Polycoat Products warrants that its products, when properly installed by a state licensed waterproofing contractor according to Polycoat Products guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer 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.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Polycoat Products makes no claim that these tests or any other tests, accurately represent all environments.