**NovoCoat 138**

**100% SOLIDOS CHEMICAL RESISTANT NOVOLAC EPOXY RESIN**

**PRODUCT DESCRIPTION**

NovoCoat 138 is a 100% solids multifunctional Novolac Epoxy system designed to give outstanding resistance to a broad range of chemicals including 98% sulfuric acid and most solvents. NovoCoat 138 also offers a workable pot life, blush-free cure and a low viscosity, making aggregate-filled flooring easy to apply. This material can be applied down to 40°F.

NovoCoat 138 is VOC compliant, meeting the most stringent guidelines. NovoCoat 138 is available in 8 standard colors available, plus clear.

**PHYSICAL PROPERTIES**

- **Composition:** Modified Bisphenol F and epoxy novolac resins crosslinked with aliphatic and cycloaliphatic polyamines.
- **Color:** 9 standard colors and clear
- **Solids content:** 100%
- **Mix Ratio:** 2A : 1B
- **Pot life (°):** 20 minutes at 77 F (1 quart mass)
- **Viscosity (77°F):** 600 cps mixed (clear)
  700 cps mixed (pigmt.)
- **Tensile Strength:** 8,500 psi (ASTM D-638)
- **Adhesion:**
  - To steel: 2,600 psi (ASTM D-4541)
  - To concrete: 350-400 psi (concrete fails) (ACI 503.4-2.3.2.2)
- **Hardness:** 80 Shore D (ASTM D-2240)
- **Abrasion Resistance:** 35 mg loss (ASTM D-4060)
- **Service Temperature:** 180 F dry heat
- **Cure Times:**
  - Dry to Touch: 4 hours
  - Light Traffic: 8 hours

(*) Pot Life is reduced by increasing temperature and/or mass.

**INSTALLATION GUIDELINES**

Preparation: Surface must be properly prepared and primed. Consult EuroCoat surface preparation bulletin for full details. Minimum surface temperature is 50 °F; preferred is 65 – 75 °F.

**TYPICAL USES**

Use NovoCoat 138 was designed as a high-gloss, high performance material for use in a variety of chemical-resistant applications for industrial environments. It is especially suitable in areas subject to high concentrations of acids such as metal plating, circuit board manufacturing, chemical processing, storage areas and waste treatment plants.

**ADVANTAGES**

- Excellent chemical resistance
- Stain resistant.
- Low maintenance finish.
- 100% solids
- Very low odor
- Complies with VOC regulations.
- Comply with USDA requirements for use in federally inspected meat and poultry plants.
- Full range of colors, very good color retention.
- Excellent workability.

**COVERAGE**

NovoCoat 138 is applied at 125-200 square feet per gallon to yield 8-12 mils DFT. Two coats are recommended for general service.
Mixing: Observe all precautions on MSDS and label when using this product. Mix ratio is 2 parts A to 1 part B. If using pigmented material, stir the part A well, bringing settled pigments up from bottom of container before adding Part B. Proportion the amounts carefully and mix for a full 2 minutes using slow speed drill with a mixing paddle. Scrape sides and bottom of mixing vessel to assure a homogeneous mixture. Improper proportioning of the two components or incomplete mixing will result in improper cure and lowered chemical resistance. The potlife of NovoCoat 138 is 20 minutes at 77 °F. Work-life is shortened at higher temperatures. Pouring material on floor immediately after mixing will extend the work time.

Application: NovoCoat 138 may be applied with roller, trowel or squeegee. NovoCoat 138 must be applied as an aggregate-filled system at a minimum of 50 mils where impact or mechanical abuse is expected. It may be applied as a self-leveling slurry, slurry-broadcast or troweled down system.

Cure: Re-coat no later than 12 hours at 70 °F. Foot traffic 8-12 hours. Full chemical cure in 5 days.

Clean up: Clean skin with soap and water; use MEK or proprietary epoxy solvent for equipment.

CHEMICAL RESISTANCE
See EuroCoat’s, Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the types of test performed.

Note: Chemical resistance is a functional test, usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subject aesthetic issues. To determine aesthetic issues, EuroCoat recommends products or system to be tested in accordance with intended end use.

HANDLING
For information on proper handling the product, read the MSDS sheets.

LIMITATIONS
Substrate must be above 50 °F (10 °C), dry and free of excessive water vapor transmission with a relative humidity below 85% at time of installation. Moisture vapor transmission (MVT) in excess of 3.0 lbs/1000 sq/ft/per 24 hr period per ASTM F1869, may result in delamination, discoloration or improper curing. New concrete should be at least 28 days old for system installation.

Should be applied only with aggregate fillers in flooring applications where impact or mechanical abuse is anticipated.

Not recommended as a clear top coat in decorative applications.

Not suitable for applications with constant temperatures over 175 °F

WARERHOUSING
•Do not expose material to direct sunshine or heat.
•EuroCoat products must be stored in a cool and dry location. Do not allow resins to freeze.
•Warehousing temperature must be between 15-32 °C (60-90 °F). Keep the material in its original packaging.
•Shelf Life: One year from date of manufacture when stored under proper conditions. Keep the material in its original packaging.

SLIP AND FALL PRECAUTIONS
OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is 0.6 on level surfaces and 0.8 on ramps. EuroCoat Systems recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions.

It is the contractor and end users’ responsibility to provide a flooring system that meets current safety standards. EuroCoat Systems or its sales agents will not be responsible for injury incurred in a slip and fall accident.

For information on proper handling the product, read the MSD sheets.

TESTING
The technical data contained herein is the result of tests made in EuroCoat’s laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results. Alkalinity are present before applying any coatings.

GENERAL INFORMATION
Moisture Vapor Emissions/Alkalinity Precautions
All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission and related high levels of alkalinity that may lead to blistering and failure of the coating system. It is the coating applicator’s responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions or alkalinity are present before applying any coatings. These test kits are available from EuroCoat Systems. EuroCoat Systems and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions or related high levels of alkalinity.
WARNINGS

EuroCoat products are guaranteed against defective materials and manufacture and are sold subject to our standard Warranty, Terms and Conditions of Sale, copies of which can be obtained on request. Warranty does not cover suitability, fit for purpose or any consequential or related damages. Please review warranty in detail before using this product.

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