

NOVA™ 301 EPOXY FLOORING

GENERIC	Advance technology diglycidyl ether of bisphenol-A resin reacted with a unique modified multiple ring cycloaliphatic amine adduct activator. The polymer structure is extremely tough with excellent chemical resistance and is reinforced with non-toxic color stable weather resistant pigments, laminar flake pigments, and a select blend of angular aggregates.
DESCRIPTION	Exceptionally attractive 1/4-inch mortar epoxy flooring system designed to provide sealing and protection of substrates and surfaces that will be exposed to severe chemical and physical environments. It is formulated to be adhesive, hard, tough, impact and abrasion resistant. The cured coating conforms to United States Department of Agriculture requirements for coatings in incidental contact with food.
USE	Epoxy flooring material for containment areas and industrial facilities with severe exposure to wet conditions, corrosive fumes and chemical contact. Provides a high degree of protection against heavy traffic, thermal shock, solvent, acid and alkali spills. It is especially useful in food processing areas with fatty acid and other food exposure and is resistant to hot water, steam and cleaning chemicals. Suitable for use with rubber wheeled forklift, or truck traffic. The principle use is for corrosion and abrasion problem areas, such as petrochemical, food processing, pulp and paper, and waste treatment plants. Suggested as a heavy duty, all-purpose, chemical resistant, epoxy flooring. To be used in combination with clear primers such as CORCHEM [®] 262, MCTHANE™ 55, NOVA™ 405, and other CORCHEM [®] products.
SERVICE LIMITATIONS	Temperature resistance up to 250°F depending upon the individual exposure. CONTACT CORCHEM [®] FOR SPECIFIC RECOMMENDATIONS BEFORE PROCEEDING for exposure to corrosive chemicals.
COLORS	Clear [without Component C – Aggregate] & Gray (other colors available).
FINISH	Non-slip.
CAUTION!	Chalking will occur with extended exposure to sunlight.
VOLUME SOLIDS	100%
DRY COVERAGE	100 sq. ft. @ 1/4 inch (250 mils) for standard premeasured packaged kit. When computing coverage allow for application loss and surface irregularities.
DRY FILM THICKNESS	Up to 1/2 inch (500 mils) per application coat. Multiple applications are recommended and may be necessary to achieve the specified or desired film thickness or due to variations in design configurations, application equipment, temperature and other factors.

COMPONENTS	Three [with Component C – Aggregate].
POT LIFE	3/4 to 1 hour @ 70°F (premeasured packaged kit). Pot life is <u>significantly shorter for higher temperatures or larger quantities</u> and longer for lower temperatures or smaller quantities.
VOC CONTENT	0 gms/l or 0.0 lbs/gal. Conforms to United States National Volatile Organic Compound Emission Standards.
THINNER	None
APPLICATION METHODS	Trowel (hand or power).
TEMPERATURES	Apply at 35°F to 125°F (Air and Surfaces) and 5°F above the dew point. Sudden and/or substantial temperature change during curing process or in-service conditions can cause film defects.
CURING TIME	Recoat 6 hours @ 70°F (refer to RECOAT AND REPAIR Section if coating reaches complete cure and hardness or if subjected to extended exposure to sunlight). Final cure 2 days @ 70°F. Curing times are <u>significantly shorter for higher temperatures and longer for lower temperatures</u> . Curing times are affected by the method of application; the amount of ventilation, and air circulation; relative humidity, etc.
PACKAGING	Premeasured packaged kits: Full Unit (100 sq. ft. @ 1/4 inch (250 mils).
SHELF LIFE	1 year from shipment date protected between 40°F and 100°F.
DOT/FLASH POINT	Non-Flammable Liquid Classification.
PERFORMANCE DATA	Contact CORCHEM® for desired information.
SURFACE PREPARATION	Surfaces must be clean, dry and free of any dirt, chalk, grease, oils, salts, hardeners, curing compounds, form release agents, and deleterious materials before application is performed. A suitable detergent cleaner should be used. (NOTE: acid washing will not remove grease, oil, etc.). Previous coatings and sealers must be removed. Vacuum the topside of all horizontal and sloped surfaces.
CONCRETE	Concrete and masonry to cure at least 28 days. <u>Clean and open surfaces</u> by abrasive "brush-off" blast or by using self contained "blast track" type shot blasting machine or by acid etching. All concrete laitance should be removed. "Blow" holes and cavities should be opened in order to properly fill and seal. Level protrusions and repair cavities, voids, and cracks. Apply CORCHEM® 262 PRIMER SEALER or NOVA™ 405 WATER REDUCIBLE EPOXY PRIMER SEALER and back roll to <u>completely wet and thoroughly penetrate surface</u> to insure that all irregularities are filled and sealed.
NOTICE!	Do not apply this product to slabs on grade unless a suitable moisture vapor barrier has been installed under the slab. Do not apply to floors subjected to hydrostatic pressure or to floors that are structurally unsound or do not have a pH 7-8.5.
PERIMETERS AND DRAINS	All open perimeters such as doorways, aisles, ramps and drains must be saw-cut and keyed for maximum strength and moisture blockage. Use portable electric saw equipped with carbide or diamond blade. The cut should be at least 3/8 to 1/2 inch deep and the inside edge chipped out with air or electric hammers for a distance of 2 inches to give a tapered slope to bottom of the saw-cut.

EXPANSION JOINTS	When moving expansion joints are covered by troweled material, they must be marked, saw cut and filled with proper backer rod and elastomeric material. Small <u>non-moving cracks and joints</u> may be filled and top-coated with troweled flooring (if they continue to move they may cause a crack in flooring and require repair).
COVING	Standard flooring material may be used to form a simple 45-degree cant cove of 1 to 2 inches high along walls. This provides a sanitary transition between wall and floor. When a taller cove is required contact CORCHEM® for additional instructions.
PRIMING	Apply a first application coat of CORCHEM® 262 PRIMER SEALER or NOVA™ 405 WATER REDUCIBLE EPOXY PRIMER SEALER to <u>completely wet and thoroughly penetrate surface</u> . Apply in an even wet coat. Spread primer over surface with roller, brush or squeegee and scrub into surface with power scrubber or stiff brush until entire area is completely wet out. Insure seams and irregularities are completely covered. Wait at least 2 hours before applying troweled material but not more than 8 hours.
APPLICATION MIXING	Mix in a mortar mixer. Flush all equipment clean with CORCHEM® 4 THINNER. Completely drain Component B (resin) into the revolving mixer. Then add Component A (activator) into Component B (resin). Do not vary proportions. After they are completely mixed, slowly add the Component C (aggregate) into the mixture. Continue mixing for several minutes until all of the aggregate is wet out and the mixed material should fall cleanly away from the rotating sides or blades. Do not over mix. When mixture appears uniformly wet, it is ready to use. <u>Do not allow catalyzed material to stand in equipment after use!</u> Clean immediately with CORCHEM® 4 THINNER or Methyl Ethyl Ketone (MEK).
APPLICATION	Move mixed material to floor area and place so applicators can work in logical flow of material and area. Empty buckets or wheelbarrow as soon as possible into small piles and spread with steel trowels to a minimum thickness of 1/4 inch and finish to a clean, tightly closed surface. Finish with trowel held at slight angle to smooth out any trowel marks. Use a rounded corner, finishing trowel. If material pulls or leaves open surface the trowel may need cleaning or is being held at wrong angle. Leave a sharp wet edge with 90-degree angle to the floor as you work.
TOPCOAT	Troweled flooring normally does not require topcoat or sealer. A topcoat may be specified to increase chemical resistance, ability to clean, or for color selection and/or improved color retention. If topcoat is used it must be applied between 6 to 48 hours after application of troweled material.
RECOAT AND REPAIR	If material has reached complete cure and hardness, or if subjected to extended exposure to sunlight, uniformly abrade the surface and feather the edges. The surface must be roughened sufficiently to provide a profile adequate to insure a mechanical bond. The use of CORCHEM® 11 ADHESION PROMOTER may be desired.
INSPECTION	Check for desired dry film thickness and for pinholes, holidays, bare areas, etc. before placing in operating service.
BRUSH	Short hair or natural bristle.
ROLLER	3/8 inch or longer nap synthetic covers such as EZ Paintrol Pronel or equal.
CLOTHING	Wear protective garments, shoes, goggles, and filter masks. Use protective barrier creams on exposed skin areas.

CONFINED SPACES

Wear properly fitted appropriate NIOSH/MSHA approved fresh air respirator such as MSA or equal with 1/4" I.D. or larger air supply line connected directly to proper air source during and after application unless air monitoring demonstrates vapor/mist levels are within safe limits. Use suction type exhaust fans and blowers. **CAUTION!** Air circulation and exhausting of vapors must be continued until the coatings have fully cured.

SAFETY INFORMATION

THIS PRODUCT CONTAINS EPOXY RESINS AND AMINE COMPOUNDS. DO NOT USE IF YOU HAVE HAD A REACTION TO THESE MATERIALS.

WARNING! VAPOR HARMFUL! CAUSES SEVERE EYE AND SKIN BURNS. MAY CAUSE SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES. HARMFUL OR FATAL IF SWALLOWED!

Use only with adequate ventilation. Prevent breathing of vapor or spray mists. Wear a properly fitted appropriate respirator during application and until all vapors and spray mists are gone. Prevent contact with eyes and skin. Do not take internally. Keep closures tight and upright to prevent leakage. Keep container closed when not in use. In case of spillage, absorb and dispose of in accordance with local applicable regulations. **FIRST AID:** In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for 15 minutes and call a physician. Remove and wash contaminated clothing before reuse. (Discard contaminated shoes). If inhaled, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label and MSDS information available. If swallowed, **CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.**

IN CONFINED SPACES AND TANKS OBEY SPECIAL SAFETY AND EQUIPMENT INSTRUCTIONS!

FOR INDUSTRIAL USE BY PROFESSIONAL APPLICATORS ONLY. NOT INTENDED FOR SALE TO THE GENERAL PUBLIC. This product should not be sold or delivered to any person under 18 years of age. KEEP OUT OF THE REACH OF CHILDREN! IF, FOR ANY REASON, ADDITIONAL PRODUCT AND SAFETY INFORMATION, INSTRUCTIONS OR EXPLANATIONS ARE NEEDED, CONTACT CORCHEM® IMMEDIATELY!

LIMITED WARRANTY

WARRANTY & LIMITATION OF SELLER'S LIABILITY: CORCHEM® CORPORATION warrants only that its coatings represented herein meet the formulation standards of CORCHEM® CORPORATION.

THE ABOVE WARRANTY SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTIONS ON THE FACE HEREOF.

The buyer's sole and exclusive remedy against CORCHEM® CORPORATION shall be for replacement of the product, in the event a defective condition of the product should be found to exist. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. The sole purpose of this exclusive remedy shall be to provide buyer with replacement of the product if any defect in materials is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as CORCHEM® CORPORATION is willing and able to replace the defective materials.

Technical and application information is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and CORCHEM® CORPORATION makes no claim these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

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CONTACT YOUR CORCHEM® REPRESENTATIVE FOR CURRENT TECHNICAL DATA AND INSTRUCTIONS.

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