

NOVA™ 407 WATER REDUCIBLE EPOXY PRIMER SEALER

GENERIC	Waterborne diglycidyl ether of bisphenol-A resin reacted with a special modified amine activator. The polymer structure is non-toxic and extremely durable.
DESCRIPTION	Moisture tolerant epoxy floor primer designed to provide penetration, wetting and sealing of substrates, which will be exposed to moderate chemical and physical environments. It is formulated to have excellent adhesion, flexibility, toughness and impact properties. The cured film conforms to United States Department of Agriculture requirements for coatings in incidental contact with food.
USE	Adheres to concrete, masonry, steel, and most substrates and poorly prepared surfaces. Provides a high degree of protection against heavy foot traffic, moisture, and chemical contact. The principal use is for floors in industrial and manufacturing facilities. Suggested as an all-purpose, user friendly, abrasion resistant protective floor primer sealer. It may be used in combination with topcoats such as CORCHEM [®] 205, NOVA™ 110, 113, 301, and many other CORCHEM [®] products.
SERVICE LIMITATIONS	Temperature resistance up to 250°F (dry) depending upon the individual exposure. CONTACT CORCHEM [®] FOR SPECIFIC RECOMMENDATIONS BEFORE PROCEEDING for exposure to corrosive chemicals.
COLORS	Clear [Amber].
FINISH	Medium-High Gloss. Finish may vary due to texture and porosity of substrate.
CAUTION!	Chalking will occur with extended exposure to sunlight.
VOLUME SOLIDS	52%.
DRY COVERAGE	Theoretical (no loss): 834 sq. ft. per gallon for one mil (.001). When computing coverage allow for application loss and surface irregularities.
DRY FILM THICKNESS	2.0 to 5.0 mils per 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	Two. By volume 4 to 1 (Base:Activator).
POT LIFE	4 hours @ 70°F (one gallon mixed quantity). Pot life is <u>significantly shorter for higher temperatures or larger quantities</u> and longer for lower temperatures or smaller quantities.
VOC CONTENT	99 gms/l or 0.83 lbs/gal. Conforms to United States National Volatile Organic Compound Emission Standards.

THINNER	Water. Thin only as required for proper application.
APPLICATION METHODS	Air or airless spray, roller, brush (small areas).
TEMPERATURES	Apply at 40°F to 125°F (Air and Surfaces) and 5°F above the dew point. Sudden and/or substantial temperature change during curing process can cause film defects.
CURING TIME	Recoat 2 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 is 3 days @ 70°F. Curing times are <u>significantly shorter for higher temperatures or lower thickness and longer for lower temperatures or higher thickness.</u> Curing times are affected by the method of application; the quantity of thinner used; the amount of ventilation and air circulation; relative humidity; etc.
PACKAGING	1-gallon & 5-gallon kits.
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, 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 should be removed. Vacuum the topside of all horizontal and sloped surfaces.
CONCRETE AND MASONRY	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 first application coat and back roll to <u>completely wet and thoroughly penetrate surface</u> to insure that all irregularities are filled and sealed.
WOOD	Sand rough areas and feather irregular edges. Seal knots and pitch pockets. Apply first application coat to <u>completely wet and thoroughly penetrate surface.</u> Fill cracks and nail holes after primer application is dry.
APPLICATION MIXING	All equipment should be clean and flushed with water. Add Component A into Component B. Do not vary proportions. Power stir, until completely mixed and continue agitation during application. Allow an induction time of 15 minutes before use. Strain only if required for proper application. Do not allow material to stand in equipment after use! Clean immediately with water followed by a final washing with CORCHEM® 6 THINNER.
APPLY	In an even wet coat. Ensure seams and irregularities are completely covered. Application below minimum or above maximum suggested dry film thickness ranges might adversely affect performance. Use of a thin or "mist" coat prior to regular application may be needed to reduce pinholing and/or blistering over a rough/porous type primer or substrate.
NOTICE!	This type sealer may be slippery under wet conditions. It is recommended that an aggregate be incorporated into the coating to provide a nonslip surface.

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 ensure a mechanical bond. The use of CORCHEM® 11 ADHESION PROMPTER may be desired.
INSPECTION	Check for desired dry film thickness and for pinholes, holidays, bare areas, etc. before placing in operating service.
AIRLESS SPRAY	Graco or equal. Pump ratio 30:1 or higher, 206-718 gun with fluid tip of .017" or larger orifice size with Reverse-A-Clean tip, 3/8" I.D. or larger high-pressure fluid line, 1/2" I.D. or larger air supply line. Continuous air source capable of 80 to 100 psi inbound pressure at pump.
CONVENTIONAL SPRAY	Binks or equal. Pressure material pot with mechanical agitator, dual regulators, air-gages, and oil and moisture separators. No. 2001 gun (external mix), 68 fluid nozzle, 568 fluid needle, 68 PB air cap, heavy-duty fluid spring, Teflon fluid packing, 1/2" I.D. or larger fluid line and 3/8" I.D. or larger air-supply line. Continuous air source capable of 20 cfm or more at 80 psi per nozzle and 60 psi to the pot.
GENERAL	Regulate pressure as required for proper application. Proportionally adjust pressure higher for smaller hose diameter and/or longer hose length and adjust pressure lower for larger hose diameter and/or shorter hose length. Select tip angles and orifice diameters according to application needs.
ROLLER	1/4" to 3/8" nap synthetic cover for smooth surfaces. Long nap synthetic cover for rough surfaces.
BRUSH	Nylon or synthetic bristle.
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. Air circulation and exhausting of vapors must be continued until the coatings have fully cured.

SAFETY INFORMATION

THIS PRODUCT CONTAINS EPOXY RESIN 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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