

NOVA[™] 110 SELF-LEVELING EPOXY

GENERIC A diglycidyl ether of bisphenol-A resin reacted with a unique modified multiple ring cycloaliphatic amine adduct activator. The polymer structure is extremely tough with superior chemical resistance to corrosive waters and acids.

DESCRIPTION Attractive epoxy floor coating designed to provide penetration, wetting and sealing of substrates and surfaces for improved structural strength and corrosion protection in severe chemical and physical environments. It is formulated to be hard, durable, impact and abrasion resistant. The cured film conforms to United States Department of Agriculture requirements for coatings in incidental contact with food.

USE Heavy-duty epoxy sealer finish for containment areas and industrial floors with exposure to wet conditions, corrosive fumes and chemical contact. Provides improved protection against heavy traffic, thermal shock, and petroleum products such as kerosene, diesel, gasoline, aviation fuels, motor oils, lubrication materials, greases, and aliphatic hydrocarbon solvents. Also resists industrial waste and water solutions containing many salts, detergents, organic and inorganic acids, alkalis and other chemicals. Resistant to hot water, steam and cleaning compounds. The principal use is as a decorative, protective finish sealer for floor problem areas, such as in petrochemical, food processing, pulp and paper, and waste treatment facilities. Self-priming or may be used in combination with primer sealers such as CORCHEM[®] 262, MCTHANE[™] 55, NOVA[™] 405, and intermediate coats such as NOVA[™] 301, 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 Gray (other colors available).

FINISH High Gloss. Finish may vary due to texture and porosity of substrate.

CAUTION! Chemical and physical resistance, color and gloss retention (yellowing, darkening and/or flattening), application properties may vary according to color selected. Color and gloss variation may occur due to different induction and heat/dry time cure cycles used or if subject to moisture before curing is complete. Color and gloss retention will be affected by exposure to elevated temperatures. Some colors require a white base coat be applied prior to finish coating and/or multiple applications in order to achieve satisfactory hiding and uniformity of appearance. Chalking will occur with extended exposure to sunlight.

VOLUME SOLIDS 100%

DRY COVERAGE	Theoretical (no loss): 1600 sq. ft. per gallon for one mil (.001). When computing coverage allow for application loss and surface irregularities.				
DRY FILM THICKNESS	As required. 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 3 to 1 (Base:Activator).				
POT LIFE	<1 hour @ 70°F (mixed one-gallon 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	CORCHEM® 4. Thin only as required for proper application. Do not exceed applicable volatile organic compound (VOC) regulations. Thinner added:				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">05% - 41 gms/lit or 0.34 lbs/gal</td> <td style="padding: 2px;">10% - 79 gms/lit or 0.66 lbs/gal</td> </tr> <tr> <td style="padding: 2px;">15% - 113 gms/lit or 0.94 lbs/gal</td> <td style="padding: 2px;">20% - 145 gms/lit or 1.21 lbs/gal</td> </tr> </table>	05% - 41 gms/lit or 0.34 lbs/gal	10% - 79 gms/lit or 0.66 lbs/gal	15% - 113 gms/lit or 0.94 lbs/gal	20% - 145 gms/lit or 1.21 lbs/gal
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APPLICATION METHODS	Spray (heaters suggested), roller, squeegee, and brush (small areas).				
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 2-8 Hours @ 70°F (<u>refer to RECOAT AND REPAIR Section if coating reaches complete cure and hardness or if subjected to extended exposure to sunlight</u>). Final cure is 24-48 hours @ 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 premeasured packaged 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, 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 should be removed. Vacuum the topside of all horizontal and sloped surfaces.				

CONCRETE AND MASONRY

Concrete and masonry to cure at least 28 days. Clean and open surfaces 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 or apply the first application coat of this product and back roll to completely wet and thoroughly penetrate surface to ensure 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.

APPLICATION MIXING

All equipment should be cleaned and flushed with CORCHEM® 4 THINNER. Add Component A into Component B. Do not vary proportions. Power stir, until completely mixed and continue agitation during application. Strain only if required for proper application. Do not allow catalyzed material to stand in equipment after use! Clean immediately with CORCHEM® 4 THINNER or Methyl Ethyl Ketone (MEK).

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.

NOTICE! This type coating may be slippery under wet conditions. It is recommended that an aggregate be incorporated into the coating to provide a nonslip surface if subject to pedestrian or vehicle traffic.

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 PROMOTER 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 .019" or larger orifice size with Reverse-A-Clean tip, 3/8" I.D. or larger high-pressure solvent resistant 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 high solvent resistant 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.

BRUSH

Short hair or natural bristle.

ROLLER	Use 3/8 inch or longer nap synthetic covers (EZ Paintr 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 that 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.

PUBLISHED TECHNICAL DATA AND INSTRUCTIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
CONTACT YOUR CORCHEM® REPRESENTATIVE FOR CURRENT TECHNICAL DATA AND INSTRUCTIONS.

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