

CORRO-DUR 255 TECHNICAL DATA

KEVLAR ENHANCED EPOXY COATING

**Secondary Containment
Surface Reinforcement
Wastewater Protection**

**Solvent-Free
Enhanced Underwater Adhesion
High Abrasion Resistance-Works Best on Rough Surface
Easy 3 : 2 Mixing Ratio
Novalac Formulation**

NONSTANDARD PRODUCT	<p>CORRO-DUR 255 is formulated for effective field application by brush, roller or plural component heated airless sprayer. The CORRO-DUR 255 formulation is based on the unique CORRO-DUR 258 resin system which may be applied to damp or wet surfaces. This resin system is toughened with *Kevlar fibers to give superior chip resistance and is pigmented with select hard ingredients to further enhance wear resistance.</p> <p>The cured film is glossy with a slight texture resulting from the fiber reinforcement. Related products have been employed for underwater application and have been subjected to both radiation and DBA testing with excellent results. The resin system used has excellent resistance to commodities such as hydrocarbon oils and fuels, mineral acids like sulphuric acid at 98% concentration and alkalis.</p> <p>The solvent-free formulation avoids the objectionable odor and explosion hazards of epoxy solvents. Absence of solvents also assures compliance with all present and proposed air pollution regulations and prevents common service problems caused by shrinkage or water sensitivity of residual entrained solvent residues.</p> <p>*trademark E.I DuPont de Nemours Co.</p>
DESCRIPTION	
USES	<p>SECONDARY CONTAINMENT..... Excellent chemical and impact resistance properties are ideal for tank linings, pits, etc.</p> <p>SURFACE REINFORCEMENT Kevlar fiber enhancement adds physical strength to Corro-Dur 255 excellent chemical strength.</p> <p>WASTEWATER TREATMENT Reinforcing, smoothing and protecting worn concrete damaged by exposure to chemical or municipal waste systems.</p>
APPEARANCE	<p>COLORS Gray (slight yellowing)</p> <p>FINISH Gloss with slight texture</p>
PHYSICAL PROPERTIES	<p>VEHICLE TYPE Epoxy/Aliphatic Polyamines</p> <p>PIGMENTATION Color / Fibrous reinforcing/Inert extender</p> <p>CLEANER M.E.K or Lacquer thinner</p> <p>MIXING RATIO 3 : 2 by volume</p> <p>INDUCTION TIME Not required</p> <p>POT LIFE..... Approx. 30 minutes / 77°F (25°C)</p> <p>SOLIDS BY VOLUME 100%</p> <p>REC.DRY THICKNESS 12-24mils (300 – 600 microns)</p> <p>THEO. SPREAD RATE..... 3.33 sq.m/l @ 300 microns; 1.67 sq.m/l @ 600 microns</p> <p>DRY TIME (TOUCH) Approx. 4 Hrs/77°F (25°C)</p> <p>DRY TIME (HARD) Approx. 15 Hrs/77°F(25°C)</p> <p>APPLICATION METHOD Roller</p> <p>SHELF LIFE 12 Months minimum</p> <p>VOC Zero</p>
SAFETY INFORMATION	<p>FLASH POINT Over 200°F or 90°C (Closed Cup)</p> <p>STORAGE CONDITIONS Normal, Freezing OK</p>

SOLVENT –FREE COATING FOR WET OR BRUTAL ENVIRONMENTS

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SURFACE PREPARATION	<p>Steel For heavy duty applications it is always preferable to abrasive blast in order to assure maximum performance. CORRO-DUR 255 is extremely tolerant of compromised surface preparation where tight rust of existing coating residues must be overcoated. The solvent-free formula of CORRO-DUR 255 allows applications over existing coatings without softening or swelling, in fact, even Styrofoam may be successfully coated with this material. To ensure adhesion over previously epoxy coated surface by abrasive blasting or other means to provide an anchor profile.</p> <p>Concrete New surfaces must be abrasive blasted or acid etched to remove the superficial layer of laitance. Treat existing coatings as for steel. A pretreatment of Corro-Dur 199 concrete sealer can help seal the underlying concrete surfaces.</p> <p>Underwater Surfaces Abrasive blast to remove marine growth and corrosion then apply by roller within 45 minutes of surface preparation.</p> <p>As with all solvent-free coatings, ensure a dust free surface prior to application, especially if blasting or mechanical grinding is part of the surface preparation process.</p>
APPLICATION	<p>CORRO-DUR 255 if supplied in two gallon (7.6 liters) units. 1.2 gallons (4.56 liters) of epoxy base are filled into a two gallon plastic pail and 0.8 gallons (3.04 liters) of curing agent are filled into a one gallon steel can to yield a 3 : 2 mixing ratio. Stir the curing agent into the base preferably using a mechanical mixer. Once mixing is complete, start application immediately – CORRO-DUR 255 does not require a “sweat-in” or induction time. Pot life is about 30 minutes at 77°F (25°C), small amounts of epoxy solvent may be added if the mixture begins to thicken noticeably towards the end of its working life. Apply CORRO-DUR 255 using brush or roller. Underwater application is best made using rollers or paint pads after surface preparation by air/abrasive or high pressure water blasting to remove loose surface contamination and marine biological fouling.</p>
TEMPERATURE	<p>Temperature will exert a considerable influence on the rate of curing of chemically cured coatings such as CORRO-DUR 255. In broad terms expect each 10°C, (18°F), rise or fall in temperature to half or double dry times and pot lives.</p>
TRANSPORTATION	<p>Non-regulated by United States - Department of Transport (USDOT), International Air Transport Association (IATA) or International Maritime Organization (IMO)</p>

SAFETY: This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

WARRANTY DISCLAIMER: The technical data given herein has been compiled for your help and guidance and is based upon our experience and knowledge. However, as we have no control over the use to which this information is put, no warranty, express or implied is intended or given. We assume no responsibility whatsoever for coverage, performance or damages, including injuries from use of this information or of products recommended herein.

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