

# CORRO-DUR 257 TECHNICAL DATA

## SOLVENT-FREE EPOXY COATING

**Anti-corrosive Coating**  
**Maintenance Coating**  
**Secondary Containment Protection**  
**Wastewater Protection**

**Solvent-Free**  
**Applies Above or Below Water**  
**Fiber Reinforced**  
**Flexibilized**  
**Excellent Chemical and Physical Resistance**

<p><b>DESCRIPTION</b></p>	<p>CORRO-DUR 257 is formulated for effective field application by brush, or roller at normal ambient temperatures. The CORRO-DUR 257 formulation is based on the unique CORRO-DUR 258 resin system which may be applied to damp or wet concrete surfaces and which has been flexibilized with an inert proprietary plastic . This resin system is toughened with Kevlar™* 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 and alkalis.</p> <p>The solvent-free formulation avoids the objectionable odor and explosion hazards of epoxy solvent. Absence of solvent 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>*Kevlar is a trademark of E.I. DuPont de Nemours Co.</p>
<p><b>USES</b></p>	<p>MARINE AND OFFSHORE ... Heavy duty maintenance for decks, tanks etc.          PETROCHEMICAL ..... Anticorrosive for use under insulation or on sweating surfaces.          POWER GENERATION ..... Ideal for draft tubes, penstocks, waterboxes and tubesheets.          FLOORING ..... Exc. chemical and physical resistance flooring with or without abrasive.          SECONDARY CONTAINMENT ..... Easy to apply, chemical and UV resistant lining.</p>
<p><b>APPLICATION TEMPERATURE</b></p>	<p>25°C –59°C</p>
<p><b>APPEARANCE</b></p>	<p>COLORS ..... All colors available including white (slight yellowing)          FINISH ..... Gloss with slight texture</p>
<p><b>PHYSICAL PROPERTIES</b></p>	<p>VEHICLE TYPE ..... Epoxy / inert plasticizer/ proprietary polyamines.          PIGMENTATION ..... Color , fibrous reinforcing, inert extender          THINNER ..... Not required          CLEANER ..... Lacquer thinner or similar          MIXING RATIO ..... 2 : 1 by volume          INDUCTION TIME ..... Not required          POT LIFE..... Approx. 40 minutes / 77°F (25°C)          SOLIDS BY VOLUME ..... 100%          REC.DRY THICKNESS ..... 15-30mils (380 – 760 microns)          THEO. SPREAD RATE ..... 80sq.ft./ gal. @ 20 mils ; 2 sq.m/l.@ 500 microns          DRY TIME (TOUCH) ..... Approx. 5 Hrs / 77°F (25°C)          DRY TIME (HARD) ..... Approx. 15 Hrs / 77°F(25°C) Max. cure in 7 days          APPLICATION METHOD ..... Roller, brush, heated plural airless spray          FLEXIBILITY ..... Approx. 25% elongation at break          SHELF LIFE ..... 12 Months minimum          VOC ..... Zero</p>

**SOLVENT –FREE COATING FOR WET OR BRUTAL ENVIRONMENTS**

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<b>SAFETY INFORMATION</b>	STORAGE CONDITIONS Normal
<b>SURFACE PREPARATION</b>	<p><b>NEW CONCRETE</b> Surfaces are best prepared by abrasive blasting to roughen and remove the weak surface laitance. When prepared properly the surface should have the firm granular appearance of “medium” sandpaper.</p> <p><b>AGED CONCRETE</b> Surfaces may be prepared by either high pressure water jetting at sufficient pressure to remove all loose contamination and yielding a firm. “medium” sandpaper finish. Worn concrete in wastewater service may be prepared using only about 3,500 psi however, aged concrete which has never been in aggressive service may require jetting with over 8,000 psi to achieve the same result. Air abrasive blasting is also a satisfactory method of preparation. If the concrete is extremely worn it may be faired smooth before application of the CORRO-DUR 257 using CORRO-DUR 455 or CORRO-DUR 456 depending on anticipated exposure.</p> <p><b>STEEL</b> Surface is best prepared by air abrasive blasting to a “near-white “, (SA2.5 SSPCSP-10) CORRO-DUR 257 is extremely tolerant of compromised surfaces and will provide excellent protection over tight rust or existing coating residues in sound condition. The solvent-free formulation avoids softening of underlying coatings, CORRO-DUR 257 may even be applied over Styrofoam™ without softening it.</p>
<b>APPLICATION</b>	<p>CORRO-DUR 257 is supplied in two gallon (7.6liters) units. 1.33 gallons (5 liters) of epoxy base are filled into a two gallon plastic pail and 0.67 gallons (2.51) of curing agent are filled into a one gallon steel can to yield a 2:1 mixing ratio. Stir the curing agent into the base preferably using a mechanical mixer. Once mixing is complete, start application immediately – CORRO-DUR 257 does not require a “sweat-in” or induction time. Potlife is about 40 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 257 using brush, pad or roller in smaller areas or with a heated, plural component airless spray on larger jobs. 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. Applications may be made in one full coat at the required millage or may be made in multiple coats if necessary. Underwater applications are best made in one heavy coat to avoid the complications of biological settlement between coats. Above water it may be necessary to “stripe coat” edges to ensure adequate coverage.</p> <p>If airless plural spraying, the following conditions are recommended :</p> <p>Ratio : Base/Cure : 2.11/1.0(Volume) Fluid Temperature : 130°F(54°C)          Tip : 30 thous”-angle to suit application Fluid Pressure : 2,250psi          Cleaning Solvent : MEK or standard epoxy thinner</p>
<b>TEMPERATURE</b>	Temperature will exert a considerable influence on the rate of curing of chemically cured coatings such as CORRO-DUR 257. In broad terms expect each 10°C, (18°F), rise or fall in temperature to half or double dry times and pot lives.
<b>MANUFACTURED BY</b>	Thin Film Technology, Inc of Houston, Texas, USA
<b>TRANSPORTATION</b>	Non-regulated by United States - Department of Transport (USDOT), International Air Transport Association (IATA) or International Maritime Organization (IMO)

**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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