

CORRO-DUR 563 TECHNICAL DATA

KEVLAR™ ENHANCED EPOXY COATING

Anticorrosive Coating
Repair Compound
Fairing Compound
Wastewater Protection

Solvent-Free
Applies Above or Below Water
High Abrasion Resistance
Easy 1:1 Mixing Ratio
Excellent Chemical and Physical Resistance

DESCRIPTION	<p>CORRO-DUR 563 is based on a unique blend of liquid epoxy polymer and aliphatic polyamine curing agents, which is able to displace water from wet surfaces in order to make a permanent bond. The formulation is solvent-free to ensure safety and maximum technical performance. Kevlar™* fibers are incorporated for reinforcement and viscosity management to achieve high application rates -even underwater.</p> <p>CORRO-DUR 563 provides permanent protection under the most adverse conditions. The formula is uniquely fieldfriendly and uses advanced low toxicity ingredients in a high build brushable/rollable product. The sister product Corro Dur 561 is available if a higher viscosity; "light paste" consistency is required. All colors including White are available and can be shipped "Non-Regulated" by USDOT, IATA and IMO.</p> <p>* Kevlar trademark E.I.DuPont Nemours Co.</p>
USES	<p>ANTICORROSIVE COATING Splash zone, excellent abrasion resistance above or below water.</p> <p>REPAIR COMPOUNDPatching, leak sealing etc. above and below water.</p> <p>WASTEWATER TREATMENT Reinforces, smooths and protects concrete exposed to chemical or municipal waste.</p> <p>FIELD JOINT COMPOUND..... Rapid curing, surface tolerant and excellent cathodic disbondment properties.</p> <p>ENCAPSULATING COATING.... Smooth, dense, easily decontaminated coating for steel and concrete.</p>
APPEARANCE	<p>COLORS Black, White, Gray, other colors available</p> <p>FINISH Slight texture</p>
PHYSICAL PROPERTIES	<p>VEHICLE TYPE Epoxy / Aliphatic Polyamines</p> <p>PIGMENTATION Color / Inert/Fibrous reinforcement</p> <p>THINNER Not required</p> <p>CLEANER M.E.K or Lacquer thinner</p> <p>MIXING RATIO 1 : 1 by volume</p> <p>INDUCTION TIME Not required</p> <p>POT LIFE Approx. 20 minutes /77°F (25 ° C)</p> <p>SOLIDS BY VOLUME 100%</p> <p>THEO. SPREAD RATE 1604 mil/sq.ft./gal, 53.5 sq.ft./gal @ 30 mils (750 microns)</p> <p>DRY TIME (TOUCH) Approx. 4 Hrs/77°F (25 ° C)</p> <p>DRY TIME (HARD) Approx. 3 hrs. light, 24 hrs. heavy service at 77°F (25 ° C)</p> <p>APPLICATION METHOD..... Trowel, Straight edged spreader, Mitts, etc.</p> <p>SHELF LIFE 12 Months minimum</p> <p>VOC Zero</p>
SAFETY INFORMATION	<p>FLASH POINT Over 200°F (93.3 ° C)</p> <p>STORAGE CONDITIONS Normal, Freezing OK</p>

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SURFACE PREPARATION	<p>Underwater Remove marine biological settlement and corrosion by high pressure water jetting with or without abrasive. Conventional air/abrasive blasting works well at shallow depths however efficiency falls off sharply below, say, 10'. Hand held power tools such as needle guns or grinders can give good results if applied conscientiously in small areas but will be inadequate in large areas. Plan to apply the Corro Dur 563 within 45 minutes maximum after surface preparation to minimize rerusting or initial settlement of fouling slime, which interferes with Initial adhesion.</p> <p>Above water requires similar high pressure water blasting or dry abrasive blasting to yield a firm, granular surface free of loose contamination.</p>
MIXING PROCEDURE	<p>Corro Dur 563 is supplied either in 2 gallon or 4 gallon kits of 2x1, 2x2 or 2x5 gallon containers respectively each of epoxy base and curing agent. These components are formulated in contrasting colors to facilitate complete mixing. "Black" Corro Dur 563 for example is supplied with a jet black epoxy base and an off-white curing agent which mix together to yield a black mixture, visible streaks of either black or white seen during the course of mixing indicate "hotspots" unmixed components. It is imperative to properly mix the components since unmixed "hotspots" of either base or curing agent <i>will never cure</i>.</p> <p>Remove equal quantities of base and curing agent from their cans and place them in a clean plastic or steel container. Mixing is easily accomplished by stirring with a "Jiffy" type mixer in a geared down, (high torque), 1/2" electric drill. Once mixing begins there will be about 20 minutes of working time available at 77°F. This time may be extended by keeping the components and mixture cool, rather than leaving it in a hot area.</p>
APPLICATION	<ol style="list-style-type: none"> 1) Using a stiff brush or roller apply from a tray of mixed material aiming for a coverage rate of about 50 sq.ft./ gallon. 2) Application by heated plural spray is easy using the following equipment setup: <ul style="list-style-type: none"> Graco "King" or similar with heated hoses. Mix ratio : 1/1 by volume Fluid pressure : 2,500 psi Fluid temp : 140°F Filters : Remove all filters Tip size : 0.031" - 0.039" orifice <p>(Note: For productivity estimate an application rate of one gallon per minute through a 0.035" tip at 2,500 psi.)</p>
CURING BEFORE SERVICE	<p>Corro Dur 563 may be immersed in fresh or salt water immediately after application. It will cure to a hard film within about 8 hours and is suitable for traffic after this time. Allow at least three (3) days at 77°F before subjecting to aggressive chemical service from industrial solvents and similar materials.</p>
TYPICAL PHYSICAL PROPERTIES OF THE CURED FILM	<p>Compressive strength : 7,380 psi (50.9 N/mm²) Tensile Strength : 6,000 psi (est.) Flexural Strength : 4,550 psi (31.4 M/mm²) Abrasion Resistance : 34.0 mg/1,000 cycles (CS17 wheels with 1,000 gram weights)</p>
MANUFACTURED BY	<p>Thin Film Technology, Inc of Houston, Texas, USA</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.

**For: Corroserv (M) Sdn. Bhd. , A-25, 1st Floor, Jalan IM 3/11
Bandar Indera Mahkota, 25200 Kuantan, Pahang, West Malaysia
Tel : 609-5735623 (3 lines) Fax no: 609-5735562
Email : admin@corroserv.com.my**