

Dura-Coat Rebuild Underwater 121

Technical Data Sheet

DESCRIPTION AND RECOMMENDED USES: 100% solids, **Dura-Coat Rebuid Underwater 121** is a **surface tolerant** two component ambient-temperature curing epoxy putty. It is designed particularly as a rebuilding material for metals in wet or underwater application. **Dura-Coat Rebuid Underwater 121** is convenient-to-use, non-sagging with good chemical resistance and high mechanical strength.

- It can be applied up to 500 mils without slump
- Suitable for any substrate, steel, bronze, aluminum, concrete
- Suitable for corrosion and abrasion protection
- Designed for splash zones and submerged repairs

Application Areas:

- ✓ Splash zone piles ✓ Submerged repairs ✓ Wet areas ✓ Damp areas ✓ Maritime repairs ✓ Pipeline repair ✓ Valves ✓ Tanks
- ✓ Many others

TECHNICAL DATA

Maximum Temperature	Wet Service	65°C	149°F
(Dependent on service)	Dry Service	120°C	248°F
Chemical Resistance	Water	Excellent	
	Alkalis	Excellent	
	Inorganic Acids	Good	
	Organic Acids	Good	
	Organic Solvents	Good	
Flexural Strength	(ASTM D 790)	560 kg/cm2 (54.2 MPa)	8,000 psi
Pull-Off Adhesion	(ASTM D 4541)	330 kg/cm2 (32.4 MPa)	4,700 psi
Tensile Strength	(ASTM D 638)	240 kg/cm2 (23.4 MPa)	3,400 psi
Shore D Durometer Hardness	(ASTM D 2240)	85	
Taber Abrasion CS-10, 1000g,	(ASTM D 4060)	35mg	
1000 Cycles			
Pot life		25 MIN / KG at 72°F	
Vertical SAG Resistance at 21C		No sag	
(70F) and 12.7mm (500mils)			
Coverage for 10Kg kit	54sf @40mils	5m2 @1mm	
Mix Ratio	1:1 by Weight		Base: Activator
Color	Grey as standard. Blue and Red optional. Other colors contact the manufacture		
Shelf life (unopened containers)	3 Years at 55-95ºF (13-35ºC)		





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Surface Preparation

Proper surface preparation is critical to the long-term performance of this product. The exact requirements for surface preparation vary with the severity of the application, expected service life, and the initial substrate conditions. All sharp edges and welds shall be ground smooth or to a 3 mm (120 mil) radius doing mechanical surface preparation. Optimum preparation will provide a surface thoroughly cleaned of all contaminants and roughened to an angular profile between 75-125 μ m (3-5 mil).

Mixing

Thoroughly mix Activator into Base with mixing stick or drill with low speed mixing blade scraping sides and bottom of container or mixing board. Mix by Weight 1-part Base to 1-part Activator. Mix thoroughly to produce an even colored and streak-free material. **THINNING: Never thin**.

Application

Use heavy plastic squeegee or putty knife. Work material into profile of substrate to achieve maximum adhesion and to remove any entrapped air. Contour to correct form with putty knife or plastic applicator. If mold or form is used, coat its surface with a release agent to prevent adhesion of the material. Machining is possible using carbide tipped tools. Grinding is possible if done within 14 hours of application at 77°F, 25°C (add 1-1/2 hour for each 10°F below 77°, subtract 1 hour for each 10° above 77°F). Large holes and cracks can be bridged with glass or metal cloth.

Curing Schedule

	16°C (60°F)	25°C (77°F)	32°C (90°F)
Tack Free	4 hrs.	2 hrs.	1 hr.
Light Load	12 hrs.	6 hrs.	3 hrs.
Overcoat End	16 hrs.	10 hrs.	5 hrs.
Full Load	24 hrs.	12 hrs.	6 hrs.
Full Chemical	48 hrs.	24 hrs.	12 hrs.

Clean Up

Use commercial solvents (Acetone, Xylene, Alcohol, Methyl Ethyl Ketone) to clean tools immediately after use. Once cured, the material would have to be abraded off.

Safety

Before using any products, review the appropriate Safety Data Sheet (SDS) or Safety Sheet for your area. Follow standard confined space entry and work procedures, if appropriate.

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