



DURA-COAT REBUILD UNDERWATER 121

DESCRIPTION AND RECOMMENDED USES

100% solids, Dura-Coat Rebuild 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 Rebuild 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

PACKAGES

	SIZE	REORDER #
OPTIONS	1kg	121-01
	2kg	121-02
	10kg	121-10
	18kg	121-18

APPLICATION AREAS

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

TECHNICAL DATA

Maximum Temperature (dependent on service)	Wet Service	90°C	194°F
	Dry Service	160°C	320°F
Chemical Resistance	Water	Excellent	
	Alkalis	Excellent	
	Inorganic Acids	Good	
	Organic Acids	Good	
	Organic Solvents	Good	
Solids by Volume		100%	
Viscosity		Paste	
Mixed Density		1.8	
Shore D Durometer Hardness	(ASTM D 2240)	85	
Pot Life		25 min / kg at 72°F	
Vertical SAG Resistance at 21°C (70°F) and 12.7 mm (500mils)		No sag	
Coverage for 10kg Kit	60sf@40mils	5.6m²@1mm	
Mix Ratio	2:1 by weight		Base: Activator
Color	Gray as standard. Blue and red optional. Other colors contact the manufacturer		
Shelf Life (unopened containers)	3 years at 55-95°F (13-35°C)		



ABRASION



CORROSION



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SURFACE PREPARATION

Dura-Coat Rebuild Underwater 121 is a surface tolerant coating for easier application, however, proper surface preparation is critical to the long-term performance of this product, so the best possible surface preparation should be done. As minimum, the substrate must be firm and free of loose corroded material, mill scale, dust, and any other loose debris. Power tool clean preparation, SSPC- SP11 is the minimum recommended surface preparation.

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 2-parts Base to 1-part Activator. Mix thoroughly to produce an even colored and streak-free material. THINNING: Never thin.

CURED TIME

	16°C (60°F)	25°C (77°F)	32°C (90°F)
TACK FREE	4 hours	2 hours	1 hour
LIGHT LOAD	12 hours	6 hours	3 hours
OVERCOAT END	16 hours	10 hours	5 hours
FULL LOAD	24 hours	12 hours	6 hours
FULL CHEMICAL	48 hours	24 hours	12 hours

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°F, subtract 1 hour for each 10°F above 77°F). Large holes and cracks can be bridged with glass or metal cloth.

CLEAN UP

- Tools must be immediately cleaned after usage by using industrial alkaline detergent.

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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