

CORROCOAT

CORROCOAT EP1

TYPE:	A HIGH SOLIDS, TWO PACK, AMINE CURED EPOXY COMPOUNDED WITH BOTH STAINLESS STEEL AND GLASS PLATELETS, AND SILICON CARBIDE.								
SUGGESTED USE:	Abrasive chemically aggressive environments such as pump casings, impellers, pipe-bends, stirrers and diffuser drums. EP1 is good for immersed abrasive environments.								
LIMITATIONS:	Must not be applied in thicknesses above 1mm for each coat. Where rebuilding is required HTE or other suitable material should be used first. EP1 is difficult to machine after full cure, grinding is preferable. It may change colour in service.								
HEALTH & SAFETY:	Read Health and Safety Data Sheet before handling this material. Avoid contact with skin or eyes. Do not ingest. Wear protective clothing and goggles. Ensure adequate ventilation. These materials are not particularly hazardous and are safe in use, if common sense and normal safety precautions for epoxy resins are observed.								
SURFACE PREPARATION:	The substrate should be grit-blasted to Swedish Standard SA 2.5 with a 75µm profile. For further details see Corrocoat Surface Preparation Specification SP1.								
APPLICATION EQUIPMENT:	Trowel or short hair stiff brush or scraper blade.								
MIXING RATIO/MIXING:	593 parts Base to 407 parts Activator by weight. Pour all of component A into component B and mix thoroughly. The material is now ready for use; it should be applied as soon as possible.								
POT LIFE:	Variable dependent upon temperature and humidity, but approximately; <table> <tr> <td>Temp °C</td> <td>20</td> <td>30</td> <td>40</td> </tr> <tr> <td>Pot Life (minutes)</td> <td>100</td> <td>45</td> <td>15</td> </tr> </table> <p>Pot life will vary depending on quantity mixed.</p>	Temp °C	20	30	40	Pot Life (minutes)	100	45	15
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APPLICATION:	In thin coats to recommended thickness for environmental conditions. Overcoating times and maximum single coat thickness must strictly be adhered to. Minimum application temperature: 8°C. Surface temperature should be 5°C above dew point and humidity below an RH value of 87%.								
THINNERS:	DO NOT THIN. Base and activator can be indirectly pre-heated to 30°C before mixing in cold application conditions.								
PACKAGING:	5kg and 10kg composites.								

STORAGE LIFE:	1 year minimum, stored below 35 ⁰ C.
COLOUR AVAILABILITY:	Speckled grey or black. Colour may change with age or service.
RECOMMENDED DFT:	minimum 850 microns in two coats or thicker to suit service.
THEORETICAL SPREADING RATE:	0.94 square metres per litre at 1mm.
VOLUME SOLIDS:	94%.
PRACTICAL SPREADING RATE:	0.7 Square metres per litre at 1mm.
	Note: This information is given in good faith but value may vary dependent upon environment conditions, the geometry and nature of work undertaken and the skill and care of application. Corrocoat accept no responsibility for any deviation from these values.
SPECIFIC GRAVITY:	1.35gms/cc mixed.
FLASH POINT:	38°C.
ACTIVATOR TYPE:	Formulated polyamine.
MIXING RATIO:	593:407 parts by weight base to activator.
TEMPERATURE LIMITS:	170°C non-immersed 140°C immersed.
HARDNESS:	40-50 Barcol.
CURE TIME:	Full chemical cure of the material will take 6-7 days at 20°C although the material may be immersed in non aggressive chemical environments after 24 hours.
OVERCOATING TIME:	Overcoating times, although approximate, must be adhered to for good product performance. At ambient temperature 8°C to 15°C: Minimum 8 hours, maximum 36 hours. 16°C to 25°C Minimum 5 hours, maximum 24 hours. 25°C to 35°C Minimum 3 hours, maximum 18 hours.
CLEANING SOLVENT:	Methyl Ethyl Ketone (Butanone), Methyl Iso Butyl Ketone, Xylene.

Reviewed 5th October 2001 – No changes

Values given are approximate.