

TYPE:	DI-SHIELD IS A POLYESTER CO-POLYMER MIXED WITH GLASSFLAKE AND OTHER FILLERS TO GIVE GOOD DIELECTRIC PROPERTIES.
	Di-Shield will cure at low temperatures, has excellent adhesion and is able to withstand the high pH generated in the vicinity, of impressed current anodes. Di-Shield will continue to cure under water once applied, it requires no primer and is of buttery consistency to prevent slumping, whilst allowing ease of application at the required thickness.
SUGGESTED USE:	Specially formulated for resistance to cathodic disbonding, it is mainly used as a dielectric-shield to dissipate current and protect areas immediately adjacent to anodes used for impressed-current distribution.
LIMITATIONS:	Where a thickness in excess of 6mm is required, this should be achieved in multiple coats. Di-Shield, must only be applied to blast cleaned surfaces for good resistance to cathodic disbondment.
HEALTH & SAFETY:	Read and observe Health and Safety precautions before handling this material. Skin contact should be avoided, especially sensitive skin areas. Protective clothing, gloves and eye protection, should be worn. Wear a suitable fume mask in confined spaces. Do not use in confined spaces without ventilation. Do not ingest.
SURFACE PREPARATION:	<ol style="list-style-type: none">1. Remove all weld slag and spatter, grind welds reasonably smooth.2. Where necessary remove oil and grease by solvent/detergent washing or steam cleaning.3. Minimum grit blast standard is ISO 8501-1 Sa 2½. SSPC-SP 10 or better using a suitable abrasive, to provide a profile of 100um (0.004").4. Remove blast residues by vacuum cleaning or blowing with clean, dry, oil free compressed air or on vertical surfaces, brushing with a suitable clean brush.5. Apply Di-Shield as soon as possible after blasting and before colour change or the formation of visible rust bloom.
APPLICATION EQUIPMENT:	Trowel or short hair, stiff brush.
MIXING RATIO/MIXING:	100:2 parts by weight, base to catalyst. Mix the whole contents of one bottle of catalyst provided into one can of Di-Shield using a heavy-duty power mixer to ensure thorough mixing is achieved. After mixing, remove contents from tin and re-mix on a clean flat surface or in a shallow receptacle.
POT LIFE:	Pot life is dependent upon temperature and Di-Shield should only be mixed immediately before application. Usable life will be circa 40 minutes at 20°C but will vary significantly, long when cold, short - hot.
APPLICATION:	Di-Shield is applied at a film thickness of 6 to 8mm from anode edge tapering over a distance of a half meter to a meter to a thickness of 1mm. It should preferably be applied in two coats, but can be applied in a single coat to the required thickness provided 6mm is not exceeded in a single coat. Minimum application temperature is minus 10°C. Surface must be dry and 3°C above dew point.

APPLICATION

Continued: Extending the shield application area to 1.5 metres from the edge of the anode will be advantageous in current dissipation with most systems. In extreme cold conditions product may have long cure time, base can be heated to 20°C before addition of catalyst using indirect heating to assist in polymerisation.

THINNERS:

DO NOT THIN. The addition of any thinner or solvent is detrimental to this product.

PACKAGING:

1 kilo, 5Kg and 10Kg composites.

STORAGE LIFE:

12 months minimum stored at temperatures below 20°C and away from heat sources or direct sunlight.

COLOUR AVAILABILITY:

Mid grey.

VOLUME SOLIDS:

99.1% solvent free.

PRACTICAL SPREADING RATE:

4.0 kg per square metre at 3mm.

Note: This information is given in good faith but may increase 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:

1.2 gms/cc mixed.

FLASH POINT:

32°C.

CATALYST TYPE:

Methyl Ethyl Ketone Peroxide, type P2.

MIXING RATIO:

100:2 parts base to catalyst weight/weight basis.

CURE TIME:

May be immersed within 1 hour of application at 20deg C.

OVERCOATING:

May be overcoated as soon as previous coat has stiffened sufficiently to support the weight of next application. Overcoating of Di-Shield, should where necessary, be carried out within 60 hours.

CLEANING SOLVENT:

Acetone, Methyl Ethyl Ketone.

DIELECTRIC PROPERTIES:

Minimum 25 kV at 1mm film.

CATHODIC DISBONDING RESISTANCE:

Excellent, BS 3900/F11 1.5v. Nil disbonding after 56 days.

ABRASION RESISTANCE:

Excellent, 428mg loss H18 wheel 1000 gm load, 1000 cycles.

IMPACT RESISTANCE:

Excellent.

All values are approximate. Physical data is based on the product being in good condition before polymerisation, correctly catalysed and full cure being attained. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services.

**Reviewed 08 December 2004
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