O'Grady's PAINT product data sheet

CORPRO 500

PRODUCT DESCRIPTION
A twin pack high build poly-amide epoxy coating, designed for pipe coating.

PRODUCT FEATURES
Corpro 500 is intended for use as a primer, intermediate & top coat. Its high build & high performance is ideal for protection of steel & concrete pipes, both externally & internally. Corpro 500 has found applications in potable water systems, sewage & underground, for applications to valves, pipes, dams, reservoirs & thickeners. Corpro 500 exhibits excellent impact resistance & abrasion resistance, together with good flexibility.

TECHNICAL INFORMATION

Colour:	Red oxide, Grey & Light Blue
Appearance:	Sheen finish
Generic type:	Epoxy/poly-amide cured
Volume solids:	±75%
Viscosity:	102 - 104Ku at 25ºC
Spreading rate:	±3.8m² per litre at 125 microns
Recommended DFT\coat:	100 - 150 microns
Recommended total dry film::	250 microns minimum
Mix ratio:	4 parts Base component, 1 part Curing agent
Solvent:	Hydrocarbon true solvent blend
Temperature resistance:	100ºC (dry)
Packaging:	5 litre twin component: 4 litre base, 1 litre Curing agent in separate containers

SURFACE PREPARATION
All surfaces are to be clean & dry. Remove all oil, grease & other contaminants with water based degreaser, followed by a fresh water wash. Remove rust & mill scale preferably by abrasive blast cleaning to Grade SA 2.5 of International Standard ISO 8501-1:1988, with a blast profile of 30 – 50 microns. Corpro 500 must be applied before oxidation of steel occurs. If oxidations does occur, the entire surface is to be re-blasted to the above specifications. Mechanical cleaning to Grade Standard 3 of the International Standard ISO 8501-1:1988 can be done in those areas where blast cleaning is not possible. This, however, can result in a shorter maintenance free life.

Concrete:

Allow the concrete to cure for at least 21 days at 25ºC before preparing to paint. concrete should be abrasive blasted to remove all loose particles. Omegas & holes are to be repaired, using Corpro 900. Where abrasive blasting is not possible, acid etch the concrete (undiluted), followed by a through fresh water rinse. Allow to dry out for at least 48 hours at 25ºC (moisture content of concrete must not exceed 6%). Then apply the first coat of Corpro 500.

Other substrates"

Ensure the substrate is clean, dry & free of grease, oil, dirt & loose materials.

When Corpro 500 is to be used in immersed & submerged conditions, a Complete Q.C. program should be undertaken. This must include the following:

Daily records of:
- Blast profile
- Surface temperature during application
- Dew point at least twice during application
- R.H. readings during application
- W.F.T. reading during application
- D.F.T. reading after 24 hours at 25ºC
- Pin hole detection testing once film has cured

APPLICATION
Mix Base component thoroughly before adding Curing agent. After adding Base & Curing agent together, mix well with power mixer until homogenous.

Airless spray: 10 – 15% dilution recommended. Use Epoxy Thinners only
- Nozzle pressure: 210 – 250 bar
- Nozzle orifice: 0.015 - 0.017"

Conventional spray: 20 – 25% dilution recommended. Use Epoxy Thinners only.
- Air pressure: 4 – 6 bar
- Nozzle orifice: 1.5 – 2mm

Brush & Roller: Suitable as supplied. Use mohair roller

Clean up: Use Epoxy Thinners only

ENVIRONMENT
It is recommended that application be confined to the following:

Surface temperature:	Min.5°C	Max. 40°C
Ambient temperature:	Min.5°C	Max. 40°C
Relative humidity:	Min. 0%	Max. 85%

Or: 3ºC above dew point

DRYING TIMES
Drying time is dependent on2 factors: Temperature & film thickness. Figures given refer to film thickness of 125 microns.

Surface Temperature	*Touch dry*	*Hard dry*
5ºC	24 hours	48 hours
15ºC	8 hours	24 hours
25ºC	1 hour	6 hours
35ºC	30 minutes	2 hours

Full cure at 25ºC: 7 days

Corpro 500 will not obtain full cure unless exposed to sustained temperature in excess of 10ºC.

OVER COATING INTERVALS

Surface Temperature	*Minimum*	*Maximum*
5ºC	48 hours	Indefinite
15ºC	16 hours	Indefinite
25ºC	12 hours	Indefinite
35ºC	8 hours	Indefinite

All the above are given as guidelines only & can not be assumed to be absolute, as variances will result from differences in film thickness, environment & surface temperatures.

POT LIFE
Figures given are related to 5 litre of mixed Base & Curing agent.

10ºC	12 hours
15ºC	8 hours
25ºC	4 hours
35ºC	1 hour

STORAGE AND HANDLING
Store away from direct sunlight, open flames & severe cold.

Shelf life: **2 years in original sealed containers**

Flash point: **15ºC for both Base & Curing agent**

LIMITATIONS
Epoxies exhibit poor U.V. resistance & will chalk (fade, loose gloss) when applied outdoors. Epoxies contain strong solvents. Always test compatibility when over coating previously painted surfaces.

SAFETY PRECAUTIONS
Work with PVC gloves & safety glasses. When spraying with Corpro 400, always wear a respirator. This product contains flammable materials. Keep away from sparks, open flames & no smoking should be permitted in the area.

Information Provided is based on Laboratory evaluations and data believed to be reliable.
Recommendations are given in good faith but without warranty. It is the user's responsibility to determine the suitability for their own use.
It is not to be considered a guarantee of the products properties.

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