



CORPRO 700

PRODUCT DESCRIPTION

A twin pack, cyclo-aliphatic amine cured, elastomer modified epoxy.

PRODUCT FEATURES

This technology has been developed for high performance, in the class of twin pack urethane & epoxy systems. Corpro 700 self-priming system combines the proven anti-corrosion features of both a chlorinated poly-olefin & an epoxy, with the toughness & flexibility of an elastomer. These properties are included in a fast curing polymer network, suited to end-uses requiring the ultimate in corrosion protection, chemical resistance, weatherability & physical toughness. Corpro 700 also offers advantages where there are constraints on physical application, where low temperature restrict painting activities, or where surface pre-treatment is difficult & as an alternative in applications where there are concerns over toxicity of other twin pack anti-corrosion systems. Corpro 700 is designed as a primer & final coat. To improve its U.V. resistance, over coat with Corpro 800 PU.

SUGGESTED END-USES

Many applications exist. Some include:

Industrial maintenance	Offshore maintenance
Mines	Marine paints
Chemical plant	Railcar coatings
Tank linings	Utility plant flue stacks
Concrete coatings	Arctic environment applications
Painting of swimming pools	

TECHNICAL INFORMATION

Colour:	White. Other colours on request
Appearance:	Semi sheen finish
Generic type:	Elastomer modified epoxy
Volume solids:	56% minimum
Viscosity:	125 seconds (Ford cup no 4) at 25°C
S.G.:	1.25
Spreading rate:	4m ² per litre
Recommended DFT/coat:	100 microns
Recommended number of coats:	2
Recommended total dry film:	Should not be less than 200µm
Mix ratio:	16 parts Base component, 1 part Curing agent
Solvent:	Hydrocarbon true solvent blend
Temperature resistance:	-15°C - 120°C (dry)
Packaging:	5 litre twin component: 4, 7 litre Base, 0.3 litre Curing agent in separate containers

SURFACE PREPARATION

Steel:

Ensure substrate is degreased prior to abrasive blast cleaning to Grade SA 2.5 of International Standard ISO 8501-1:1988, with a blast profile of 30 – 50 microns. Corpro 700 must be applied before oxidation of steel occurs. If oxidation 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.

Galvanized steel:

Degrease entire surface with O' Grady's Supaclean or Lacquer Thinners. Apply 2 Coats of Corpro 700, allow 12 hours to dry at 25°C between coats.

Swimming pools:

Acid etch the entire surface using a stiff bristle brush. Wearing of safety Equipment is obligatory. Then thoroughly rinse with fresh water to ensure all acid is removed from surface. Allow to dry; this may take 2 – 3 days. (moisture content of substrate must not exceed 6%). Apply the first coat, 50% dilution is recommended with Epoxy Thinners. Allow to cure for 12 hours at 25°C. Apply second coat diluted 25% & leave to cure for 5 days at 25°C, prior to filling with water. Inspect substrate for possible pinholes.

Other substrates:

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

APPLICATION

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

Airless spray:	50% dilution is recommended for best results. Use Epoxy Thinners only. Nozzle pressure: 150 - 200 bar Nozzle orifice: 0.017"
Conventional spray:	50% dilution is recommended. Use Epoxy Thinners only. Air pressure: 3 – 4 bar Nozzle orifice: 1.5 – 2mm
Brush:	Suitable as supplied, for touch up & stripe coating
Roller:	25% dilution with Epoxy Thinners. Mohair rollers are recommended.
Clean up:	Use Epoxy Thinners only for dilution. For clean up, use good quality Lacquer Thinners.

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 at least 3°C above dew point

DRYING TIMES

Surface Temperature	Touch dry	Hard dry
5°C	24 hours	48 hours
15°C	10 hours	24 hours
25°C	1 hour	8 hours
35°C	30 minutes	2 hours

OVER COATING INTERVALS

Surface Temperature	Minimum	Maximum
5°C	48 hours	Indefinite
15°C	24 hours	Indefinite
25°C	8 hours	Indefinite
35°C	2 hours	Indefinite

Full cure: 7 days at 25°C

Sustained temperature below 5°C will extend full cure to 21 days.

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

5°C	25 hours
15°C	10 hours
25°C	6 hours
35°C	1½ hour
25°C	2 hours
35°C	1 hour

STORAGE AND HANDLING

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

Shelf life:	2 years in original sealed containers.
Flash point:	15°C for both Base & Curing agent

LIMITATIONS

Corpro 700 exhibits good U.V. resistance, but will eventually chalk (fade, loose gloss) when exposed to continuous sunlight. Corpro 700 contains strong solvents. Always test compatibility when over coating previously painted surfaces.

SAFETY PRECAUTIONS

Work with PVC gloves & safety glasses. When spraying Corpro 700, always wear a respirator. (air fed in confined areas). This product contains flammable material. 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.

For more information contact our Factories:

Western Cape: Tel/Fax: (021) 853-8105 Mpumalanga: Tel: (013) 246-2570 Fax: (013) 246-2573