O'Grady's PAINT product data sheet

CORPRO 320

PRODUCT DESCRIPTION
A self-leveling cyclo-aliphatic amine cured, solventless epoxy floor coating.

PRODUCT FEATURES
- Excellent gloss & gloss retention
- Exceptional adhesion to most well prepared substrates
- Self-priming & self-leveling
- Excellent abrasion & chemical resistance
- Good colour retention
- Excellent adhesion to most sound painted surfaces

TECHNICAL INFORMATION

Colour:	Black, White & other colours on request
Appearance:	Hard gloss finish
Generic type:	Epoxy/cyclo-aliphatic amine cured
Volume solids:	100%
Viscosity:	100 - 103Ku at 25ºC
Spreading rate:	±1m² per kg
Recommended DFT\coat:	1 - 3 mm
Mix ratio:	5 parts Base component, 1 part curing agent
Solvent:	None
Packaging:	6 kg twin component: 5 kg base, 1 kg curing Agent in separate containers

CHEMICAL RESISTANCE GUIDE
Correctly cured films of Corpro 320 have the following resistance potential:

25% ammonia water	Cod liver
Petrol	Linseed oil
Beer	Milk
N-butyl ether	-50% caustic solutions
Cyclo-hexane	Olive oil
Diesel oil	10% oxalic acid
< 5% acetic acid	Perchloro-ethylene
< 15% ethanol	Paraffin
Ethylene glycol	-80% phosphoric acid
Vegetable juice	Castor oil
Glycerol	-10% nitric acid
<20 hydro-chloric acid -	30% brine
Lard	-50% sulphuric acids
Soap solution	Silicone oil
White spirits	Carbon tetra-chloride
Water	Wine
Xylene	

SURFACE PREPARATION
All surfaces are to be clean, dry & free of contaminants, e.g. oil, grease, dust, moisture & loose materials. Allow concrete & masonry substrates to cure for at least 21 days at 25ºC, prior to surface preparation & coating. Oil & grease contamination is to be treated with O' Grady's Supaclean until not race of oil or grease migrates to the surface. Loose & unbound materials are to be abraded off until sound & firm substrate is obtained. Vacuum the surface to ensure all trace of dust is removed. When chemical cleaning is employed, to etch the floor either with acid or strong alkali, it is essential to thoroughly wash the surface with fresh water. Allow to dry for 48 hours at 25ºC prior to painting.

APPLICATION
Mix base component thoroughly before adding curing agent. After adding base & curing agent together, mix well with power mixer until homogenous. Under no circumstances must Corpro 320 be diluted with thinners. To prevent premature gelling in the can, it is recommended to pour the entire contents out on the floor & then spread with scrapers or rollers. When using a squeegee & spike, prime the surface with a 50% diluted coat of Corpro 200. The colour must be in contrast to the final coat. Allow 12 hours to dry.

Suitable end-uses:
- Workshop floors
- Show room floors
- Chemical plant floors & drains
- Abattoir & cold room floors
- Food processing floors

Ideally suited for environments where VOC & toxicity would present a problem & areas where no ventilation is possible.

Airless spray:	Can be utilized, however, not recommended
Conventional spray:	Not recommended
Brush and Roller:	Suitable as supplied.
Clean up:	Use Epoxy Thinners only

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

Surface temperature:	Min.10°C	Max. 40°C
Ambient temperature:	Min.10°C	Max. 40°C
Relative humidity:	Min. 0%	Max. 90%

Substrates must contain less than 6% moisture for best results.

DRYING TIMES
Drying time is dependent on2 factors: Temperature & film thickness. Figures given refer to film thickness of 200 microns.

Surface Temperature	*Touch dry*	*Hard dry*
10ºC	48 hours	4 days
15ºC	24 hours	2 days
20ºC	8 hours	24 hours
25ºC	6 hours	12 hours
30ºC	2 hours	8 hours

Full cure at 25ºC: 7 days

Sustained temperature below 15ºC will extend full cure to 21 days. If required during winter conditions, an accelerator can be added to speed up the reaction, but this will reduce the pot life dramatically.

OVER COATING INTERVALS
Due to high gloss & hardness of finish, together with chemical resistance, over coating Corpro 320 can be difficult & it is advised at all times to abrade the surface & solvent wipe prior to application of second coat when necessary.

Surface Temperature	*Minimum*	*Maximum*
10ºC	48 hours	4 days
15ºC	24 hours	2 days
20ºC	12 hours	1 day
25ºC	6 hours	18 hours
30ºC	4 hours	12 hours

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
The greater the mass & higher the temperature, the greater the exotherm, the shorter the pot life. Figures given are related to a 1 kg of mixed base & curing agent.

10ºC	18 hours	15ºC	12 hours
20ºC	6 hours	25ºC	2 hours
30ºC	Less than 30 minutes		

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

Shelf life:	2 years in original sealed containers.
Flash point:	Above 250ºC

LIMITATIONS
Corpro 320 chalks in direct sunlight & it is therefore recommended to over coat with Corpro 800 for outdoor applications. Under no circumstances must Corpro 320 be diluted with Thinners.

SAFETY PRECAUTIONS
Work with PVC gloves & safety glasses.

For more information contact our Factories:
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