MONOTEK® 1000

TWO COMPONENT, HIGH BUILD, EPOXY COATING

FEATURES

HIGH QUALITY-HIGH PERFORMANCE

A very hard, tough epoxy polyamide, high build & high solids (93%) coating.

RESISTANCE

Excellent chemical & abrasion resistance

ECONOMY

The " **MONOTEK® 1000** two coat system" is hard to match for performance & cost effective long-term concrete protection.

APPLICATION

Easy to apply 250-500 microns in one (1) coat.

VERSATILE

Can be a high build finish coat or can be top-coated with one (1) coat of **MONOTEK® 2000 (High Build, acrylic modified, polyurethane coating)** for higher gloss & UV resistance.

The economical **MONOTEK® 1000** – *Two (2) coat system* - has proven highly successful in a wide range of applications in industries such as:

- Food processing & manufacturing
- Chemical Manufacturers
- Packaging & related industries.
- Automotive & engineering (workshops).
- Car parks, warehouses & plant rooms.

Automotive Workshop Floor

Warehouse Floor

SPECIFICATION DATA

Colours:	Aust. Std 2700 colours /custom colours *(minimum quantities apply)*
Solids:	By volume - 93% approx.
Theoretical spreading rate:	- @ 4 - 5 m^2 per lt
	Wet film 200 -250 microns
	Dry film 190 -230 microns
Component Ratio :	Base to Converter (by volume)
Standard Hardener	3 : 1 (3lt Part A/ 1lt Part B)
Rapid Hardener	3.7 : 1 (3lt Part A/ 810ml Part B)
Density :	1.4kg / per lt
Induction time :	15 Minutes @ 20 ^{0}C
Pot Life : (@ 20 $^\circ$ C)	60min (4lt kit) 45 min (20lt kit)
Drying Times :	Touch - 6hrs Hard - 12hrs
(@ 20^{O}C)	Full Cure - 3 - 4 days
Packaging (std. hardener):	Available in 4lt & 20lt Kits.
Solvent :	**MONOTEK® 1000** Thinners.

DANGEROUS GOODS CODES:

(PART A) 3.2	(PART B) 8	Hazchem: 3(Y)
U.N: (part A)	1263	(Part B) 1860
THINNERS	3.1	UN: 1263

CHEMICAL RESISTANCE [@ 20° C]

Chemical	Conc	24 Hours	500 Hrs	1 Year
Acetic Acid	10%	RD	NR	NR
Acetic Acid	50%	NR	NR	NR
Acetone		NR	NR	NR
Amm. Sulphate	10%	R	R	R
Amm. Chloride	10%	R	R	R
Beer		R	R	R
Butanol		PR	D	NR
Calcium Chloride	10%	R	R	R
Caustic Soda		R	R	PR
Carbon Tetrachloride		PR	NR	NR
Citric Acid	10%	R	RD	RD
Diesel Fuel		R	R	R
Formic Acid	5%	NR	NR	NR
Fruit Juice		R	R	RD
Hydrochloric Acid	10%	R	RD	RD
Lactic Acid	10%	R	RD	NR
Leaded Petrol		R	R	RD
Mineral oils		R	R	R
Olive Oil		R	R	R
Super Petrol		R	RD	RD
Sewerage	10%	R	R	R
Sulphuric Acid	5 %	RD	NR	NR
Turpentine		R	R	RD
White Spirits		R	R	R

R = Resistant **PR** = Partially Resistant
D = Discoloured **NR** = Not Resistant/Destroyed

Test carried out to determine chemical resistance in the laboratory, will vary in practice due to variations in chemical temperatures and mixtures. For specific resistance data is required, on site testing or simulated test are recommended to verify suitability.

SURFACE PREPARATION

All surfaces to be coated must be free of loose & flaking paints, grease, oil, excessive moisture (or hydrostatic pressure) and other foreign/ non-compatible matter (such as paving type paints & sealers). All concrete surfaces must have been either high pressure (2000 psi +) water cleaned or captured shot-blasted / diamond ground (to provide a suitable mechanical "key" profile) & thoroughly degreased using **Corroclean®** (non-caustic, alkaline detergent). Acid etching is a suitable preparation on smooth concrete as long as it is rinsed well using H.P. water (above 1,500 psi) Any pre-existing two component epoxy paints must be mechanically sanded/ diamond ground to provide a profile. All metallic surfaces must be primed prior to coating with a suitable **MONOTEK®** metal primer.

MIXING AND THINNING

MONOTEK® 1000 is a two component product supplied in 4lt and 20lt kits which contain the proper ratio of ingredients. The entire contents of each container should be mixed together. Power mix the base / Part A proportion first to obtain a smooth, homogeneous condition. After mixing the base component for 5 minutes, add the converter/ Part B slowly with continued agitation. When the addition of the converter is complete, continue to mix slowly for 5 minutes.

Thinning is not always required, however at lower temperatures and on porous surfaces **small** amounts (up to 10% or less) of only the **MONOTEK® 1000** solvent. Any addition of solvent should be made after the two components are mixed together. **The pot life of the mixed material is approx. 60 minutes at 20^{O}C (4lt Kit) (Std. Hardener/ less time with Rapid / Winter grade hardener).** Higher temperatures / larger quantities will reduce the working life of the coating; lower temperatures will extend the pot life. It is not advisable to apply the materials in high humidity above 80% or temperatures lower than 5^{0} C or higher than 30^{0} C.

APPLICATION

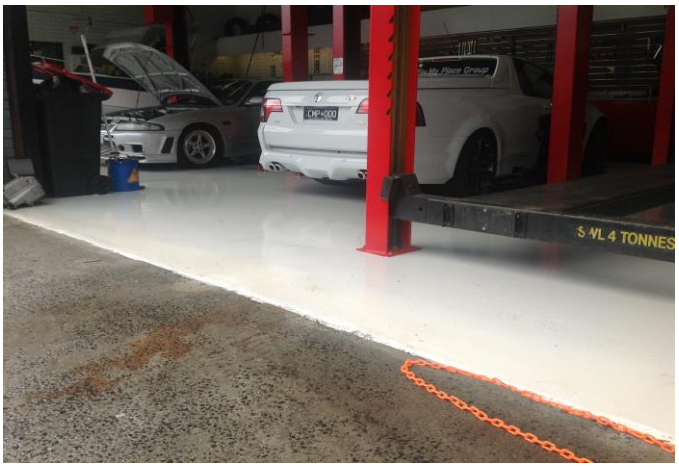
MONOTEK® 1000 can be applied easily by brush or roller. Care should be taken to ensure that proper and uniform film thickness is obtained however.

MONOTEK® 1000 can be also be applied by commercial airless spray equipment for very large areas, however care should be taken to follow relevant OH&S requirements for the spraying two component paint products. Where airless equipment is to be used, a 30:1 ratio airless pump and a 0.023" to 0.030" tip size will provide a good spray pattern. Fluid Hoses should not be less than 3/8" (10mm) ID and not longer than 15m to obtain optimum results.

The fluid pressure should be kept low, about 15 psi, with just enough air pressure to get good break-up of the coating. Excessive air pressure can cause over spray problems.

PRECAUTIONS

Caution! **MONOTEK® 1000** is highly flammable and may cause skin or eye irritation. Keep away from heat, sparks and open flame. Use adequate ventilation. For additional information see separate *Material Safety Data Sheet*.
(Available on-line 24/7 – www.monotek.com.au)



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