

MONOTEK HBE®

THREE (3) COMPONENT, HIGH BUILD, SOLVENTLESS (100% Non-Volatile) EPOXY COATING - Coloured

FEATURES

HIGH QUALITY-HIGH PERFORMANCE

Three (3) component, solvent-less epoxy, high build (100% solids), non-volatile coating - coloured. ***Very low odour ***
Available in Standard Formula for summer / warm temperature applications & Rapid setting formula for quick turn-around / low temperature applications.

100% NON-VOLATILE / VERY LOW ODOUR

As MONOTEK® High Build Epoxy (HBE) - Pigmented does not contain any volatile components, odour thresholds are very low (1- 2ppm ionisable vapours – tested with photoionization vapour monitors – which according to WORKSAFE Australia guidelines poses no exposure risk for workplace exposure in ventilated areas), which makes it ideal in food manufacturing areas and where non-application staff may be exposed.

RESISTANCE

Excellent chemical & abrasion / wear resistance

TYPICAL APPLICATION

Easy to apply 250-500 microns in one coat as a roll-on coating (2 coats minimum recommended)

MONOTEK® HBE has proven highly successful in a wide range of applications in industries such as:

- All Food processing environments & commercial kitchens
- Chemical Manufacturers & storage
- Printing, Packaging & related industries.

SPECIFICATION DATA

Colours: AS 2700 colours/custom colours (** NOT AVAILABLE IN CLEAR **)

Solids: By volume - 100% approx. GLOSS

Volatile components (VOC): 100% non-volatile

Theoretical spreading rate: @ 4 m² per lt
Wet film thickness 250 microns
Dry film thickness 250 microns

Component Ratio : Base to Converter to Pigment

By Volume 2 : 1 : 0.2

Density : 1.5kg / per lt

Induction time : 15 Minutes @ 20 °C

Pot Life: (@ 20 °C/ Std. Hardener) 20 - 30 min (8lt kit)

Drying Times : (@ 20°C) Touch - 24hrs Traffic – 48 - 96hrs
Full Cure - 7 days

Packaging : Available in 8lt & 16lt Kits.

Solvent (clean-up only): MONOTEK® epoxy thinners.

DANGEROUS GOODS INFORMATION:

(PART A - Base) Packaging Group: n/a UN No. n/a
(PART B - Hardener) Packaging Group: III UN No. 2735
(PART C - pigment) Packaging Group n/a UN No. n/a



Warehouse Floor



Commercial Kitchen Floor

CHEMICAL RESISTANCE (@ 20° C) – unfilled

Chemical	Conc.	24 Hours	500 Hrs	1 Year
Acetic Acid	10%	RD	NR	NR
Acetic Acid	50%	NR	NR	NR
Acetone		NR	NR	NR
Ammonia Sulphate	10%	R	R	R
Ammonia 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.



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SURFACE PREPARATION

All concrete surfaces to be coated must be in sound, stable condition, with moisture content not greater than 5%. New concrete substrates must be at least 28 days old prior to application of the **MONOTEK® HBE**. The recommended preparatory method for the finishing of the concrete substrate, post-pouring, is either "Steel or Helicopter trowelled". Any traces of oil, grease or other contaminants must be completely removed by detergent wash. All excess water to be mopped up and concrete allowed to thoroughly dry. All surfaces to be coated ideally must be captive shot blasted to a profile similar to that of 80 grit sandpaper. Care must be taken to ensure that all existing curing compounds/agents, loose or flaky material and laitance are completely removed. Hand diamond- grind all areas that are inaccessible to shot blast machine. All surfaces to be coated should be vacuum cleaned to remove dust and other loose particles immediately prior to application of the first coat of **MONOTEK® HBE**.

Standard 'Acid-etching' is not an ideal or the recommended preparation technique for concrete substrates specified to be applied with the **MONOTEK® HBE** product unless the surface is then rinsed with high pressure (1500psi+) water. Please refer MONOTEK® Technical Representative for further information. 'Acid-etching' is not a suitable preparation technique for concrete substrates suspected of being pre-treated with 'Densifier' or 'Penetrating Sealer' type products. Preparation via mechanical abrasion of the substrate must be performed prior to application (ie. Scabbling / Shot-blasting / Diamond-grinding) to permit maximum adhesion characteristics of the system as specified. Please refer MONOTEK® Technical Representative for further information.

MIXING METHOD RECOMMENDATION

Mix only the quantity required for 20-30 minutes use

(Please note that the 'Pot life' of the mixed material will be considerably reduced if the RAPID hardener is selected)

Mix Pack A, Pack B & Pack C in the ratio of: **2 : 1 : 0.2 (A : B : C / by volume)**

Add **MONOTEK® HBE** Colour pack (Pack C) to **MONOTEK® HBE** Clear base (Pack A) and stir thoroughly for 2-3 minutes, avoiding excessive aeration of mix. Then add slowly the **MONOTEK® HBE** Hardener (Pack B) and once again stir thoroughly for 2 - 3 minutes, avoiding excessive aeration of mix.

Stir thoroughly with a broad paddle or low-speed mechanical mixer (350 RPM) to ensure even mixing.

NOTE – Some colour shades will have higher opacity than others. If coverage of a particular colour shade is of concern, then an addition of extra 'Colour pack' to the system is permitted. Please note that the gloss, rheology and visual / aesthetic appearance of the **MONOTEK® HBE** system may also be affected by this extra 'Colour pack' addition. Therefore, it is recommended a small test sample be applied before adding the extra 'Colour pack' to a full kit. Please contact your local MONOTEK® Technical Representative prior to any extra 'Colour pack' addition to system.

Thinning is not recommended - Please refer MONOTEK® Technical Representative for further information.

The addition of a small percentage of 'Thixotropic Additive' may still be required to reduce the potential for sagging when applied to vertical surfaces, especially when the product is to be applied in temperatures higher than usually specified or recommended. The gloss, rheology and visual / aesthetic appearance of the **MONOTEK® HBE** system may also be affected by this addition. Therefore, it is recommended a small test sample be applied before adding the thixotropic additive to a full kit. Please contact your MONOTEK Technical Representative for further information.

If required as above, the thixotropic additive must be added to the premixed resin system (A+B+C), then stirred thoroughly and applied to the **vertical** surface. Please note that it is the full responsibility of the contractor / applicator to evaluate suitable addition quantities of the thixotropic additive to the Monotek® HBE (Standard or Rapid), if applied to vertical surfaces.

THINNING

Solvent must not be added to **MONOTEK® HBE** under any circumstances, unless agreed in writing by MONOTEK® Technical Manager, for job or site specific applications. Most common solvents, including Acetone and Methylated Spirits, will be detrimental to the curing, structural integrity and inter-coat adhesion characteristics of the specified **MONOTEK® HBE** epoxy resin system.

Please contact your MONOTEK® Technical Representative for further information.

A P P L I C A T I O N

- **MONOTEK® HBE** is a very versatile coating. It can be applied by squeegee or medium nap roller (Refer below)
- A key advantage of **MONOTEK® HBE** is that it is relatively odour free during application.
- For 'Cutting-in' and other small areas, the **MONOTEK® HBE** product may be applied by brush.
- Exceeding recommended application rate of 4 - 5m² / L is NOT recommended.
- **Roller nap size**..... 10 - 15mm (Micro-Fibre / Lamb's wool / Mohair) recommended
- **No. of coats**..... Two recommended – A 3rd coat may be required on very porous substrates
- **Cleaning solvent** MONOTEK® Epoxy Thinner or Xylene

Caution: Must not be applied over damp surfaces.

Do not apply when the air / surface temperature is below, or is likely to fall below 10°C, the air / surface temperature exceeds, or is likely to exceed 30°C, or relative humidity exceeds, or is likely to exceed 85%. Substrate temperature must be at least 3°C greater than the dewpoint at the time of application. Freshly applied coatings should be protected from chemicals, liquids, fluids, oils, solvents, thinners, damp, condensation and water for at least 7 days @ 25°C. Please refer D.P.J. Coating Systems technical department for further information.

M A I N T E N A N C E

- The service life of a floor will be considerably extended if good housekeeping practices are followed. Regular cleaning of Monotek® HBE can be carried out using a mop, scrubbing brush, or automatic rotary buffing / scrubbing machine, in unison with a mild alkaline detergent. Please contact your MONOTEK® Technical Representative for further information.

A V A I L A B L E P A C K S I Z E S

STANDARD			RAPID		
Pack Size	Product	8 litre kit*	Pack Size	Product	8 Litre Kit
Pack A	Clear Base	5.00 Litres	Pack A	Clear Base	5.00 litres
Pack B	Standard Hardener	2.50 Litres	Pack B	Rapid Hardener	2.50 Litres
Pack C	Colour Paste	0.50 Litres	Pack C	Colour Paste	0.50 Litres
Pack Size	Product	16 Litre Kit*	Pack Size	Product	16 Litre Kit*
Pack A	Clear Base	10.00 Litres	Pack A	Clear Base	10.00 Litres
Pack B	Standard Hardener	5.00 Litres	Pack B	Rapid Hardener	5.00 Litres
Pack C	Colour Paste	1.00 Litres	Pack C	Colour Paste	1.00 Litres

- Colour availability may be subject to minimum order requirement

S T O C K C O L O U R P A C K S – R e a d i l y a v a i l a b l e
(A u s t r a l i a n S t a n d a r d c o l o u r s)

Neutral Grey AS N23
 Cloud Grey AS N22
 Pewter AS N63
 Std. Grey 00548
 Manila AS Y45
 Red Oxide AS R63
 Serpentine AS G22
 Royal Blue AS B12

Light Grey AS N35
 Mid-Grey AS N52
 Bridge Grey AS N44
 Lt. Grey Blue AS B44
 Oatmeal AS Y54
 Bluebell AS B41
 Std. Lt. Blue 00525
 Bright Blue AS B23

Koala Grey AS N45
 Pipeline Grey AS N43
 Graphite Grey AS N65
 Golden Yellow AS Y14
 Grey Blue AS B43
 Harbour Blue AS B24
 Emerald AS G13

Blue Grey AS N53
 Lead Grey AS N55
 Charcoal AS B64
 Mushroom AS Y65
 Warratah AS R14
 Jade AS G21
 Beige AS X43

This data sheet summarises, to our best knowledge at the date of issue, the health and safety hazards of the product and provides general guidance on how to safely handle it in the workplace. Since **D.P.J. Coating Systems Pty Ltd** cannot anticipate all the conditions and situations under which the product may be used, each user must, prior to use, assess and control the risks or hazards arising from the use of the product.



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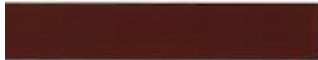
w w w . m o n o t e k . c o m . a u



Golden Yellow



Waratah



Red Oxide



Mushroom



Oatmeal



Beige



Manilla



Serpentine



Jade



Emerald



Royal Blue



Bright Blue



Harbour Blue



Bluebell



Standard Light Blue



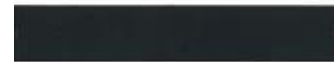
Light Grey Blue



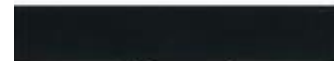
Grey Blue



Blue Grey



Graphite Grey



Charcoal



Pewter



Lead Grey



Mid Grey



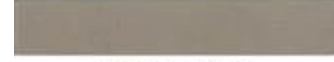
Bridge Grey



Pipeline Grey



Standard Grey



Koala Grey



Light Grey



Cloud Grey



Neutral Grey

Disclaimer: **THESE COLOURS ARE NOT ACCURATE.** The samples in this colour card are as near to the actual colours as the CMYK printing process permits. Actual colours vary from this colour card and from batch to batch. Prospective users and specifiers **MUST** satisfy themselves as to the suitability of coating and colour prior to application. Colour samples may be made available for this purpose.

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