



Era Polymers NZ LTD
 57 Rangi Rd, Takanini
 Auckland 2105
 New Zealand
 www.erapol.co.nz

PURE MAGIC 50

TECHNICAL DATASHEET

PURE MAGIC 50 (45-55 Shore A) is a two part urethane elastomer that exhibits excellent strength, flexibility, surface reproduction and chemical stability.

Application

PURE MAGIC 50 is a 1:1 mixture with a set time of approx 5-6 minutes. Initial consistency is much like runny warm honey thickening to a cold honey consistency as the mixture starts to set.

PURE MAGIC 50 can be released from moulded items in circa 30 minutes depending upon substrate even though moulds do become tougher over a 4 hour period. Full hardness overnight.

PURE MAGIC 50 is perfect for making flexible moulds that would otherwise require labour intensive fibreglass or box/two piece silicone moulds. Small undercuts are permissible when the **PURE MAGIC 50** is not applied thickly.

PURE MAGIC 50 is perfect for film prop products or moulds such as concrete stamp moulds. Other potential uses include; bunding of factory doorways, electronics encapsulation, waterproof pond material over geotextile material, Concrete stamp mats, Concrete moulds. Use of **PURE MAGIC 50** is limited only by the user's imagination...car engine mounts, moulds for model kit conversions and many more.

PURE MAGIC 50's natural colour is white. Colours compatible with urethane products can be used to colour the product.

All mixing vessels and surfaces contacting the uncured **PURE MAGIC 50** must be dry; otherwise blowing (bubbles) can occur.

Cured PM 50 is impervious to water

The Polyol (Part B) must be thoroughly mixed before use.

Product Specification and Physical Properties

Liquid components	45-55 + Shore A
Appearance	White
Viscosity	1000 cps
Mixing Ratio Polyol/Iso	1:1

This information is of general nature and is supplied without recommendation or guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.



Reaction Profile	
Gel Time	210 s
Tack Free Time	5-6mins
Mixing	30 seconds with fast drill & mixer attachment (Important)
Finished Density	1000.kg/m ³

Processing Information

Component containers should be pre-heated to at least 20°C prior to mixing/dispensing. Preheat substrate if possible to >20°C. The optimum temperatures can vary depending on ambient conditions, applications and substrate.

Application Condition

PURE MAGIC 50 is formulated for application on most surfaces under various conditions. Substrates should however be clean and dry. Water or moisture will react with the components and affect the finished results.

PURE MAGIC 50 will adhere to many surfaces. Therefore a mould release agent must be used when making moulds.

PURE MAGIC sticks to itself seamlessly and multi layer buildups are completely practical and layer lines near invisible.

PURE MAGIC forms an excellent bond with many surfaces and a thin layer of freshly mixed material can be used to stick PM 50 moulded components to other surfaces.

Yield

PURE MAGIC 50 does not contain blowing agent.

PURE MAGIC 50 exhibits minimal shrinkage characteristics.

Product Handling

All persons using polyurethane components should be trained in their use and be familiar with the product MSDS's.

Avoid contact with the eyes or skin and breathing the vapour. Wear appropriate personal protective equipment if necessary.

Component A (diphenylmethane-diisocyanate)

This is a potential respiratory sensitiser. Persons who suffer from hypersensitivity of the respiratory tract (e.g. asthmatics and chronic bronchitis sufferers) should avoid handling this product.

Component B (polyol blend)

This contains polyols

Avoid contact with the eyes or skin. If eye contact occurs, flush thoroughly with water and consult a physician.

Cleanup

Cured **PURE MAGIC 50** is difficult to remove chemically. Therefore spillage should be minimized and cleaned up as soon as possible.

Storage

Components should be stored at temperatures between 15°C and 25°C. Containers should be tightly closed.

Polyols should be remixed before use.

Shelf life is 6 months from delivery minimum

24 hr Emergency No: 0800 2436-2255