



# METZ 91

## POLYURETHANE COATING



### DESCRIPTION:

METZ 91 is a two-component, colour stable polyurethane specifically designed as a top coat for METZ monolithic flooring products.

### FEATURES AND BENEFITS:

- **Colour Stable**  
Suitable for both indoor and outdoor applications.
- **Available in a Wide Range of Colours**  
Note: minimum order quantities may apply.
- **Abrasion Resistant**  
Improves abrasion resistance and reduces marking of resin based flooring systems.
- **Good Chemical Resistance**  
Resistant to a wide range of acids, alkalis, salts and oils.

### RECOMMENDED:

As a top coat for METZ 92 Self-Levelling Polyurethane Flooring and METZ 33 Epoxies.

For use in:

- Food Processing plants
- Breweries and Soft Drink plants
- Showrooms
- Pharmaceutical plants
- Dairies and Milk Products processing
- Confectionery plants

### NOT RECOMMENDED:

- For areas subject to strong solvents or concentrated acids. Refer to METZ for alternate products.

### PHYSICAL PROPERTIES:

Finish:	Satin
Solids Content:	55% w/w
Drying times at 25°C:	Tack Free - 3 hours
	Final Set - 16 hours
	Full Cure - 7 days
Thickness (wet):	70 - 100 microns

### COVERAGE:

Average, on smooth surfaces.

12 sq. metres per litre per coat.

Note: Coverage will vary according to substrate profile.

### APPLICATION TEMPERATURE:

For optimum results, maintain a temperature of 10°C to 30°C on air and substrate and components during mixing, application and curing.

Substrate temperature should be at least 3°C above the dew point.





# METZ 91

## POLYURETHANE COATING



### INSTRUCTIONS FOR USE

#### 1. Temperature of Working Area

For optimum results, maintain a temperature of 10°C to 30°C on air, substrate and components during application and curing.

At temperatures below 10°C, the application becomes more difficult and curing is retarded.

At temperatures above 30°C, the working time decreases.

Application in direct sunlight and rising surface temperatures may result in blistering of the coating.

Application should also be done when the substrate temperature is at least 3°C above the dew point.

#### 2. Surface Preparation

All surfaces must be clean, dry and free from oil, grease, water and other contaminants which may inhibit bond.

Polyurethane and epoxy surfaces which are more than 24 hours old should be lightly sanded before application of METZ 91.

#### 3. Mixing

##### (i) *Mixing Equipment*

Mechanical mixing is recommended.

A slow speed drill with a rectangular paddle can be used. High speed mixers must not be used, as they will entrap air.

#### 4. Installation

Apply by short nap (5-6mm) roller or spray. Normal usage is a rate of 10-14 sq. metres per litre.

Small areas may be applied by brush.

Apply evenly, or some gloss variations may occur.

One coat is usually sufficient. If two coats are required, apply second coat 6-18 hours after the first. If first coat is older than 18 hours, lightly sand before application of second coat.

##### (ii) *Mixing Proportions*

Material is supplied in pre-measured 4 litre and 20 litre kits. If smaller quantities are required, the mixing ratio is:

By Volume	
Liquid	3
Hardener	1

##### (iii) *Mixing Procedure*

Remix liquid and hardener prior to combining.

Mix liquid and hardener slowly and thoroughly, avoiding entrapment of air.

**Allow to stand for 30 minutes, then restir and apply.**

##### (iv) *Pot Life at 20°C*

90 minutes from initial mixing, i.e. 60 minutes from end of standing period.

##### (v) *Clean Up*

Mixing equipment, tools etc. can be cleaned with METZ Cleaner, xylene, acetone or M.E.K. prior to initial set of cement.

Note: Splashing solvent on freshly laid material can result in discolouration.

#### 5. Setting/Curing

Tack Free, at 25°C: 3 hours

Final Set, at 25°C: 16 hours

Final Cure, at 25°C: 7 days

Do not allow water, chemicals or traffic on the material surface for a minimum of 24 hours. For harsh chemical or physical environments, cure a minimum of 72 hours at 25°C prior to exposure.

#### 6. Safety Precautions

Use chemical goggles, PVC gloves and barrier cream.

Avoid contact with skin and eyes.

Flammable.

Avoid formation of flames or sparks.

Use in well ventilated areas.

For full safety precautions, refer to the Material Safety Data Sheets for all components.

1. The information contained in the Metz Data Sheet is based upon results of controlled tests and practical experience and is offered in good faith to assist in the correct usage of the material to which it refers.
2. In the event of any product sold or agreed to be sold by Metz Pty. Limited not complying with the express terms of the Metz Data Sheet at the time of sale Metz Pty. Limited will, at its option, replace the defective product free of charge to the buyer, or will refund all payments made to it by the buyer in respect of the defective product, and this shall be the limit of its obligation.
3. Metz Pty. Limited hereby excludes all liability for any loss or damage, including any consequential loss or damage, arising from the use of, any defect in or failure in the performance of any product supplied by it including, without limiting the generality of the foregoing, any such loss or damage as aforesaid arising from any surface preparation for, the mixing of and/or the application of any such product.
4. Any express or implied condition, statement, representation or warranty, statutory or otherwise, not stated in writing is hereby excluded.

REV 05/01

**METZ PTY LTD**

A.C.N. 069 454 075

12 Turbo Road, Kings Park, NSW 2148

Facsimile: (02) 9671 4292

Phone: (02) 9671 1311

6 University Place, Clayton North, VIC 3168

Facsimile: (03) 9561 6944

Phone: (03) 9561 6144

**Distributor ENGECON SPECIAL PRODUCTS CO., LTD.**

125/7 Moo.5 Jangwattana Rd. Prakkret

Nonthaburi 11120 Thailand

Tel: (662) 962-1171-4, (662) 962-2581-4

Fax: (662) 962-1175, (662) 962-2585

E-mail: info@engecon.com www.engecon.com