# 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 25ºC: | 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 10ºC to 30ºC on air and substrate and components during mixing, application and curing.

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

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INSTRUCTIONS FOR USE

**1. Temperature of Working Area**

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

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

At temperatures above 30ºC, 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 3ºC 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 slowing and thoroughly, avoiding entrapment of air.
**Allow to stand for 30 minutes, then restir and apply.**

(iv) *Pot Life at 20ºC*

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 25ºC: 3 hours
Final Set, at 25ºC: 16 hours
Final Cure, at 25ºC: 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 25ºC 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.



REV 05/01


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