

METZ VITON™ COATING/MEMBRANE

FLUROELASTOMER COATING/MEMBRANE



DESCRIPTION:

Metz Viton™ Coating is a fluoroelastomer which is suitable for use as a coating or as a membrane beneath Metz ceramic linings in extreme chemical environments.

Metz Viton™ Coating is resistant to a wide range of chemicals, including concentrated sulphuric and nitric acids.

FEATURES AND BENEFITS:

- **Outstanding Chemical Resistant**
Resistant to a wide range of chemicals including concentrated sulphuric, nitric, hydrochloric and phosphoric acids.
- **Withstands temperatures from -40 to 200°C**
- **Tough but flexible**
- **High tensile strength and abrasion resistance**
- **Excellent adhesion to many substrates**
- **Quality Accreditation**
The management system governing the development and manufacture of this product is proudly ISO9001:2008 certified.

RECOMMENDED:

As a coating on concrete or metal or as a corrosion resistant membrane used behind acid proof ceramics, in:

- Secondary containment linings
- Acid plants
- Fertilizer plants
- Oil refineries

Note: For critical applications as added protection install Metz 4HB-EN or Metz 15VE series product as appropriate to the corrosive containment beneath the Metz Viton™ Coating/Membrane layers.

NOT RECOMMENDED:

- For exposure to some ketones, esters and amines (eg: MEK, Acetone)
- For exposure to some concentrated acids (eg: concentrated Acetic Acid)
- For stand-alone use in areas where impact or abrasion is possible. Refer Metz for alternative products.

PHYSICAL PROPERTIES: (Typical Values)

Solids content (by weight):	83%
Solids content (by volume):	59%
Density (mixed product):	1.94 - 2.04g/cm ³
Viscosity, cps:	50,000
Elongation:	150%
Tensile Strength:	4 MPa
Colour:	Grey

COVERAGE: Theoretical quantities (allow for wastage)

One 3.75L kit will cover approx. 22 sq.metres at a dry film thickness of 100 microns.

Metz Epoxy Primer (if required) 0.3kg/m² depending upon absorbency of surface.

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Acid Protection • Industrial Flooring • Specialty Ceramic Tiling

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INSTRUCTIONS FOR USE

1. Temperature of Working Area

Maintain a temperature of between 15°C to 25°C on substrate and air during mixing, application and cure. At temperatures below 15°C, viscosity will increase and installation will become more difficult.

At temperatures above 25°C, working time will be reduced.

2. Surface Preparation

All surfaces to be jointed must be smooth, clean and dry. Remove all oil, grease and other contaminants that may inhibit bond. Abrasive blasting and degreasing with oil-free solvents is recommended.

Metal - Abrasive blast to AS1627.4 Class 3 for immersion conditions and to Class 2 1/2 minimum for all other conditions, with a minimum blast profile of 50 microns. Check surfaces for soluble salt contamination. If not immediately overcoating a corrosion inhibiting primer is required. Consult Metz for details.

3. Mixing

a) *Mixing Equipment*

Low speed mechanical mixing is recommended. Do not use high speed mixers that will introduce substantial amounts of air into the mix.

b) *Mixing Proportions*

Metz Viton™ Coating is supplied in 3.75L pre-weighed kits. If smaller quantities are required, the mixing ratio is:

	By weight
Metz Viton™ Coating Liquid	45 parts
Metz Viton™ Coating Hardener	1 part

c) *Mixing Procedure*

Remix liquid thoroughly before use.

Add hardener to liquid container and mix thoroughly. Scrape bottom and sides of mixing containers to ensure there are no pockets of unmixed material.

After mixing, put lid on container and leave for 10 minutes, to allow for escape of entrapped air. Remix before use.

Keep all containers sealed when not in use. Air exposure allows evaporation of solvent and increases the viscosity of the material.

d) *Pot Life:*

Approx. 4 hours at 25°C. (If material kept covered).

e) *Clean Up*

Mixing equipment can be cleaned with Metz Cleaner, xylene, acetone or MEK prior to initial set

f) Ensure you have the latest mixing instructions, refer www.metz.net.au for latest data sheet version

4. Installation

Note: Metz Epoxy Primer should be used when concrete is the substrate. Refer Metz Epoxy Primer data sheet for full instructions. A light broadcast of fine clean, dry sand into the still wet Metz Epoxy Primer will aid application of the Viton overcoat. Apply Metz Viton™ after initial set of Metz Epoxy Primer but within 24 hours.

If Metz 4HB-EN or Metz 15VE series product is to be used refer to those data sheets for relevant installation details.

Apply by soft rubber squeegee, rolling or spraying. Brush is only suitable for small areas. Apply in coats up to 170 micron wet (100 micron dry). If being used as a membrane in immersion conditions, at least two coats should be applied.

For immersion conditions the final installation should be spark-tested before installation of ceramic lining, contact Metz for details. Coating will adhere well to itself. Allow coats to dry before applying additional coats. Keep lid on container when the material is not being actively applied. Air exposure allows evaporation of the solvent and increases the viscosity of the materials.

5. Setting/Curing

Metz Viton™ Coating will dry on the surface very rapidly (generally within 20 minutes), but will take longer to dry through the bulk of the material as the solvent escapes. Thin applications will cure in 1-2 days at 25°C. During this time, do not allow water, traffic or chemicals on the surface of the joint.

6. Storage

Store in original unopened containers at temperatures between 10° and 30°C. Under these conditions, shelf life is minimum of 9 months.

7. Safety Precautions

Liquid and Hardener:

Use chemical goggles, PVC gloves and barrier cream. Avoid contact with skin and eyes.

Flammable:

Avoid formation of sparks.

No smoking or welding.

Avoid build-up of fumes.

Ensure adequate ventilation.

For full safety precautions refer to the Safety Data Sheets for both components.

Always ensure you have the latest data sheet version, refer www.metz.net.au

1. The customer must comply strictly with the instructions contained in this product data sheet. Metz is not responsible for any advice or variations to this data sheet which are not confirmed in writing.
2. If the customer has a claim against Metz in respect of any product supplied to the customer by Metz whether due to a fault in the product or the negligence or breach of contract by Metz or for any other reason:
 - a) Metz shall not be liable for any loss or damage including consequential loss or damage or loss of profits arising thereby;
 - b) Metz may at its option replace the defective product free of charge to the customer or refund all payments made to it by the buyer in respect of the defective product; and the maximum liability of Metz shall be the cost of replacing the defective product.

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