METZ VITON COATING/MEMBRANE
FLUOROELASTOMER 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**

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: Metz Epoxy Primer is used beneath Metz Viton Coating/Membrane when concrete is the substrate.

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/m^2 depending upon absorbency of surface.

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INSTRUCTIONS FOR USE

1. Temperature of Working Area

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

At temperatures above 25ºC, 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
Liquid	45 parts
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 25ºC. (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.

Apply by brushing, dipping, rolling or spraying. 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 25ºC. 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 10º and 30ºC. Under these conditions, shelf life is minimum of 6 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 Material 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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METZ SPECIALTY MATERIALS PTY LTD
A.C.N. 140 636 639
15A Stanton Road, Seven Hills NSW 2147
Facsimile: (02) 9671 4292 Phone: (02) 9671 1311

6 University Place, Clayton North, VIC 3168
Facsimile: (03) 9561 6944 Phone: (03) 9561 6144

Unit 16, 42 Smith Street, Capalaba QLD 4157
Facsimile: (07) 3823 5552 Phone: (07) 3823 5555

Distributor