

METZ VITON™ CAULK

FLUROELASTOMER SEALANT



DESCRIPTION:

Metz Viton™ Caulk is a high solids content fluoroelastomer, which is suitable for use as a movement jointing material, sealant or adhesive in extreme chemical environments.

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

Metz Viton™ Caulk can be used in both horizontal and vertical applications.

FEATURES AND BENEFITS:

- **Outstanding Chemical Resistance**
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 sealant and adhesive compound in acid proof brick or tile, or Metz monolithic toppings and concretes in

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

NOT RECOMMENDED:

- For applications where solvent entrapment may occur. Consult Metz regarding applications not mentioned in the data sheet.
- For exposure to some ketones, esters and amines (eg: MEK, Acetone)
- For exposure to some concentrated acids (eg: concentrated Acetic Acid)

Consult Metz for suitable products.

PHYSICAL PROPERTIES: (Typical Values)

Solids content (by weight):	80%
Solids Content (by volume)	60%
Density (mixed product):	1.6g/cm ³
Viscosity,:	7x10 ⁵ cps
Elongation:	350%
Tensile Strength:	5.5 MPa
Colour:	Grey

COVERAGE: Theoretical quantities (allow for wastage)

For 10mm wide x 6mm deep joints : one 3.75L kit will cover approx 37 lineal. metres.

For 6mm wide x 4mm deep joints : one 3.75L kit will cover approx 94 lineal metres.

Note: Coverage figures are based on joint sizes noted above. Larger joints may require multiple applications and the solids content by volume (60%) must be taken into account when estimating usage. Contact Metz for assistance if required.



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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 clean and dry. Remove all oil, grease and other contaminants that may inhibit bond. For concrete or other porous surfaces, a primer is recommended. 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™ Caulk is supplied in 3.75L pre-weighed kits. If smaller quantities are required, the mixing ratio is

By weight

Metz Viton™ Caulk Liquid 20 parts

Metz Viton™ Caulk 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

In outdoor applications, or where significant joint movement is likely, installing Metz Viton™ Caulk in the coolest part of day, when joint will most likely be at its maximum width will reduce the likelihood of damage to partially cured material. The depth of the joint should not generally exceed the width. For horizontal, joints should be approx 10mm wide x 8mm deep. For vertical, joints should be approx 6mm wide x 4mm deep.

Note: For wide vertical joints, or installation in warmer temperature it is likely Metz Thixotrope will need to be added. Add up to 100gms (1 litre) per 3.75L kit. Add thixotrope slowly to liquid component with constant stirring before adding hardener.

Metz Viton™ Caulk can be applied by trowel or caulking gun. Regulate the joint depth by placing oversize closed-cell polyethylene rod or equivalent in the joint. If joint is not deep enough to use the rod, plastic tape or other bond-breaking material should be placed in the bottom of the joint. Avoid entrapping air in material. Bleed air from caulking gun prior to use. Apply nozzle of gun to bottom of joints.

Do not apply Metz Viton™ Caulk thicker than 6mm in any one pass. Thick applications can pull away from the sides of the joint as the product dries. Thick applications are also more prone to trapping solvent or air pockets. Make two or three passes with at least 8 hours between passes for thicker applications.

Apply masking tape on both sides of the joint. Trowel or gun Metz Viton™ Caulk into joint. Overfill joint slightly. Smooth joint with spatula or similar before initial set takes place. After finishing joint remove masking tape immediately.

After the material has been applied, cover joints with polythene sheet to slow skinning and allow any bubbles to escape. Polythene can be removed after 2-3 hours.

5. Setting/Curing

Metz Viton™ Caulk 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. Full cure is achieved in 2-3 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.

8. 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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