

# METZ VITON™ CAULK ONE PART FLUROELASTOMER SEALANT



## DESCRIPTION:

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

Metz Viton™ Caulk One Part is resistant to a wide range of chemicals, including hydrochloric sulphuric, phosphate and nitric acids.

Metz Viton™ Caulk One Part can be used for horizontal, vertical and for overhead joints without excessive width.

## FEATURES AND BENEFITS:

- Outstanding Chemical Resistance  
Resistant to a wide range of chemicals including many acids and alkalis.
- Withstands temperatures from -40 to 200°C
- Tough but flexible
- High tensile strength and abrasion resistance
- Excellent adhesion to many substrates
- Easy to handle, no mixing required. Ready for use.
- Resealable nozzle to minimise waste.
- Quality Accreditation  
The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

## RECOMMENDED:

As a sealant compound in Metz acid brick or tile, or Metz monolithic product installations. For repairing Metz Viton™ Caulk, or as an adhesive in:

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

## NOT RECOMMENDED:

- For applications where solvent entrapment may occur. Consult Metz regarding applications not mentioned in this data sheet.
- For prolonged immersion in concentrated acids. Refer Metz Viton™ Caulk.
- 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):	77%
Solids Content (by volume)	54%
Density (mixed product):	1.35 - 1.45g/cm <sup>3</sup>
Viscosity, cps:	1.5x10 <sup>6</sup>
Elongation:	300%
Tensile Strength:	4.8MPa
Colour:	Black

## COVERAGE: Theoretical quantities (allow for wastage)

For 10mm wide x 6mm deep joints : one 325ml cartridge kit will cover 2.9lin. metres.

For 6mm wide x 4mm deep joints : one 325ml cartridge will cover approx 7lin metres.

Note: Coverage figures are based on joint sizes noted above. Larger joints may require multiple applications and the solids content by volume (54%) must be taken into account when estimating usage. Contact Metz for assistance if required.



## INSTRUCTIONS FOR USE

### 1. Temperature of Working Area

Maintain a temperature of between 10°C to 30°C on substrate and air during application and cure. At temperatures below 10°C, curing may be inhibited and final technical properties may be affected. At temperatures above 30°C, surface of product may skin too rapidly.

### 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. Installation

In outdoor applications, or where significant joint movement is likely, installing Metz Viton™ Caulk One Part in the coolest part of the day when the joint will most likely be at it's maximum width will reduce the likelihood of damage to partially cured materials.

The depth of the joint should not generally exceed the width. Joints should be approx 6mm wide x 4mm deep, up to a maximum of 10mm wide x 8mm deep.

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.

Note the temperature limitation of any bondbreaking tape, backing rods etc and if a higher temperature material is required then consult Metz.

Do not apply Metz Viton™ Caulk One Part 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. Unscrew cartridge seal and put aside. Screw in plastic nozzle and snip off end of nozzle to desired opening. Load cartridge into caulking gun and apply. Reseal cartridge to preserve any unused product. Overfill joint slightly. Allow to settle, then smooth joint with spatula or similar before initial set takes place. After finishing joint, remove masking tape immediately.

Uncured material can be cleaned with acetone (recommended), Metz clean xylene or MEK.

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

### 4. Setting/Curing

Metz Viton™ Caulk One Part 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.

### 5. Storage

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

### 6. Safety Precautions

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.

**Always ensure you have the latest data sheet version, refer [www.metz.net.au](http://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.