METZ VITON CAULK
FLUOROELASTOMER 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 is available in two grades: HG for horizontal surfaces and VG for vertical and overhead surfaces.

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 200ºC**
- **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 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):	HG 83%, VG 85%
Solids Content (by volume)	HG 59%, VG 62%
Density (mixed product):	1.94 - 2.04g/cm^3
Viscosity, cps:	HG 5x10^4, VG>2x10^6
Elongation:	HG 150%, VG 50%
Tensile Strength:	4 MPa
Colour:	Grey

COVERAGE:

Theoretical quantities (allow for wastage)

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

For 6mm wide x 4mm deep joints : one 3.75L kit will cover approx 92 lin metres.

APPLICATION TEMPERATURE:

The recommended temperature range for application of Metz Viton Caulk is 15ºC to 25ºC.

Higher temperatures will promote faster release of solvent, fast curing and shorter pot life.

Lower temperatures can increase the viscosity of the material and may make application difficult.

METZ VITON CAULK
FLUOROELASTOMER SEALANT

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 clean and dry. Remove all oil, grease and other contaminants that may inhibit bond.

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
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

The depth of the joint should not generally exceed the width. For HG grade, joints should be approx 10mm wide x 8mm deep. For VG grade, joints should be approx 6mm wide x 4mm deep.

Regulate the joint depth by placing oversize polythylene 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.

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. Pour or trowel Metz Viton Caulk into joint. 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.

Keep lid on container on the material when not being actively applied. Air exposure allows evapouration of the solvent and increases the viscosity of the material.

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 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 10 and 30ºC. Under these conditions, shelf life is minimum of 6 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 Material Safety Data Sheets for both components.

REV 12/09

METZ SPECIALTY MATERIALS PTY LTD
A.C.N. 140 636 639
12 Turbo Road, Kings Park, NSW 2148
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