

Fluorodyn Caulk made with Viton®

Fluorodyn Viton® Caulk is the ideal solution to Corrosion Control and Surface Protection in virtually all environments. Thermodyn's revolutionary new coating based on VITON® Fluoroelastomer and produced in conjunction with Dupont Dow Elastomers, is the latest Fluoroelastomer developed by Thermodyn and Dupont Dow.



Fluorodyn Viton® Caulk is compounded with 75% solids making it an easy to apply, single component caulk. This advanced compound system provides excellent corrosion resistance in the uncured state, as well as increased resistance after heat curing, to virtually all chemicals, including Nitric, Sulfuric and Hydrochloric Acids.

Fluorodyn Caulk made with Viton® is recommended for use in harsh, corrosive environments that require flexibility, leak-proof sealing, and high resistance to permeation.

Fluorodyn Caulk is impervious to Ozone & also resistant to UV Light, Aliphatic, Aromatic, and Halogenated Hydrocarbons, Hot Oils, Hot Acids, Hot Water, Steam and Heat up to 232°C.

Fluorodyn Caulk is the ideal caulk or coating for Environmental Protection where Gasoline, Diesel, Kerosene, Jet Fuels, Oils, Antifreeze & other Chemicals may be spilled and absorbed into and through pavements and pavement expansion joints and into the soil.

Successful Applications

- Petroleum Storage Tanks
- Sealing Retaining Walls
- Pipe Lining
- Airport Refueling Aprons
- Ship Storage Tanks
- Rail Car Lining
- Vapor Recovery Tanks
- Petrochemical Storage Tanks
- Automobile Fuel System Components
- Concrete Work Floors

Product Features

- Easy to use
- 75% solids by weight
- Temperature good to 232°C
- White and Brown colours subject to MOQ
- Low permeability & no porosity
- Other viscosities available upon request

Availability

71ml Re-sealable Squeeze Tubes
320ml Re-sealable Cartridges*
850ml Re-sealable Cartridges

3.8 litre Pails
19 litre Drums
208 litre Economy Size Drums

*Standard Stock Line



Phone: 1300 098 060

Web: www.agaus.com.au

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Benefits

- Indefinite product life, eliminates expensive Viton® waste
- Caulk will not break down in harsh conditions
- Assures corrosion protection
- Exceeds most high temperature caulks
- Very flexible
- No mixing, no mess
- Great bonding properties

Targeted Applications

- Chemical resistance
- Flue duct expansion joint repair
- Resistant to ozone and UV light
- Environmental protection
- Aliphatic, aromatic, & halogenated hydrocarbon resistance
- Corrosion resistance
- Viton® repair
- High temperature resistance
- Adheres to all metals, concrete, glass & ceramics
- Seals concrete
- Protects metal

PROPERTIES

| | |
|-----------------------------------|---|
| Solids Content by Weight | 75% |
| Tensile Strength | 1655 psi |
| Ultimate Elongation | 285% |
| Service Temperature - Max | 232°C |
| Colour | Black |
| Swell Test Data (% by volume) | |
| • Concentrated Sulfuric Acid | +6% |
| • Concentrated Nitric Acid | +8% |
| • Concentrated Hydrochloric Acid | +3% |
| Concrete Adhesion | 360 psi |
| Pot Life @ 22°C | Indefinite**Based on re-sealing after usage |
| Required Mixing | No |
| Application Methods | Cartridge Gun or Trowel |
| Coverage Based on *6.4mm Dia Bead | *Note as product dries, bead diameter shrinks |
| 320ml: | 9.15 Lineal Metres |
| 850ml: | 18.3 Lineal Metres |

Other Fluorodyn Products

Fluorodyn THP-1000 Coating made with VITON®

Developed as an easy to apply, quick drying, flexible rubber coating which is easily applied with a brush, roller or airless sprayer, right out of the re-sealable can. Available on indent only.

Fluorodyn THP-2000 Two Part Coating made with VITON®

Developed with the same patented base polymer as THP-1000. This coating with accelerator offers superior chemical resistance when material must be fully cured, and heat is not an option. THP-2000 is easy to mix and ready to use in 15-20 minutes. Coated surfaces can be back in service in as little as 17 hours after application. Withstands temperature extremes from -29°C to 232°C with excursions to 260°C. Available on indent only.



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Fluorodyn Caulk - Chemical Resistance

| Chemical Name | Concentration | Rating |
|-----------------------------------|---------------|--------|
| Acetic Acid | 25% | B |
| Acetic Acid | 50% | C |
| Acetic Acid | 75% | C |
| Acetic Acid - Glacial | | D |
| Acetic Anhydride | 100% | D |
| Acetone | 100% | D |
| Acetonitrile | 100% | C |
| Acrylamide | 50% | D |
| Acrylic Acid | 25% | C |
| Acrylic Acid | 100% | D |
| Acrylonitrile | 100% | C |
| Alum | 100% | A |
| Aluminum Chloride | 100% | A |
| Aluminum Fluoride | 100% | A |
| Aluminum Hydroxide | 20% | B |
| Aluminum Hydroxide | Saturated | D |
| Aluminum Sulfate | All | A |
| Ammonia | 100% | D |
| Ammonium Acetate | 50% | A |
| Ammonium Bromide | Saturated | A |
| Ammonium Chloride | Saturated | A |
| Ammonium Hydroxide | 10% | B |
| Ammonium Hydroxide | 30% | C |
| Antifreeze/Water | 50/50 | A |
| Aqua Regia | Conc. | A |
| ATF Fluid (Transmission Fluid) | | A |
| Benzene | 100% | A |
| Black Liquor | | A |
| Bromine | 100% | A |
| Butyric Acid | 100% | A |
| Chlorine | Liquid | A |
| Chromic Acid | 50% | A |
| Copper Sulfate | Saturated | A |
| De-Ionized Water | | A |
| Diesel Fuel | | A |
| Ethyl Alcohol | 50% | A |
| Fatty Acids | Saturated | A |
| Ferric Chloride | Saturated | A |

| Chemical Name | Concentration | Rating |
|---------------------|---------------|--------|
| Fluosilicic Acid | Saturated | A |
| Formic Acid | 100% | C |
| Gasoline | | A |
| Heptane | 100% | A |
| Hydrochloric Acid | 36% | A |
| Hydrofluoric Acid | 20% | A |
| JP-4 (Jet Fuel) | | A |
| Kerosene | | A |
| Lactic Acid | All | A |
| Maleic Acid | Saturated | A |
| Methanol | | A |
| Methylene Chloride | | A |
| Motor Oil 5W/30 | | A |
| Nickel Chloride | Saturated | A |
| Nitric Acid | 50% | A |
| Perchloric Acid | 30% | A |
| Phenol | 100% | A |
| Phosphoric Acid | 100% | A |
| Picric Acid | 10% | A |
| Potassium Hydroxide | 10% | C |
| Potassium Hydroxide | 25% | D |
| Potassium Hydroxide | 50% | D |
| Propionic Acid | 50% | C |
| Sodium Bisulfide | 45% | A |
| Sodium Hydroxide | 5% | C |
| Sodium Hydroxide | 25% | D |
| Sodium Hydroxide | 50% | D |
| Sodium Hypochlorite | 15% | A |
| Sugar Beet Liquor | All | A |
| Sulfamic Acid | Saturated | A |
| Sulfuric Acid | 98% | A |
| Tannic Acid | Saturated | A |
| Toluene | 100% | A |
| Vinyl Acetate | 100% | A |
| Xylene | 100% | A |
| Zinc Chloride | 70% | A |
| Zinc Sulfate | Saturated | A |

A: Excellent B: Good C: Fair D: Not Recommended

Data for this chart compiled from: 1) Viton® Fluid Resistance Guide - VT-500.1 (R2); 2) Compass' Chem. Resistance Guide for Elastomers II (1994); 3) Viton® VTR-7248 Data Sheets



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Fluorodyn Caulk - Application Instructions

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General

1. All surfaces must be clean and dry
2. If oil is present clean thoroughly with Toluene or MEK
3. Spread caulking compound as evenly as possible at the desired thickness
4. We recommend testing prior to use

Surface Preparation

Priming is not usually necessary when surfaces are thoroughly cleaned. Coat a test area to make certain of good adhesion.

Prepare Surfaces According to these Guide Lines

Steel: Before sand blasting remove all traces of oil and grease using a suitable detergent, followed by a clean water washing. All Steel surfaces should be sandblasted to white metal in accordance with NACE Specification # 1.

Dust and sand particulate should be removed by suitable means.

Aluminum: Surface must be roughened by either sand blasting or mechanically to ensure a sufficient anchor pattern. Remove all oxidation. Dust and particulates should be removed. Wipe surface clean with Methyl Ethyl Ketone prior to application. For additional adhesion surface can be primed with Chemloc 5150.

Flexible Materials: Rubber, plastics, & fabric etc., should be cleaned of surface contaminants.

Concrete Surfaces:

New surfaces: should have all construction dust and curing compound removed. Free of all loose contaminates.

Old Surfaces: should be cleaned to remove any surface contaminants. Hydro blasting or sandblasting is highly recommended prior to application.

Application Temperature: Fluorodyn Caulk made with Viton® was designed to be applied at ambient temperature. We recommend testing prior to use.

Application Methods: Caulk or trowel product to desired thickness.

Curing Material: Allow material to dry for 48 hours or longer if possible, depending on the thickness of application. After material is completely dry step curing is recommended to vulcanize caulk. Increase temperature 50° every 30 minutes once all solvent has evaporated. Increase temperature to 120°C and hold for 1 hour. Note: Rapid increase in temperature and wet caulk will result in blistering of caulk.

Storage: Caulk should be stored in a cool dry area. For extended storage, material should be stored in refrigerator.



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