

# Kem® Vibra-TITE®

**ADHESIVES AND SEALANTS**

**THREADLOCKERS • THREAD SEALANTS**

**RETAINING COMPOUNDS • LIQUID GASKETING**

**CYANOACRYLATES • ANTI-SEIZE COMPOUNDS**

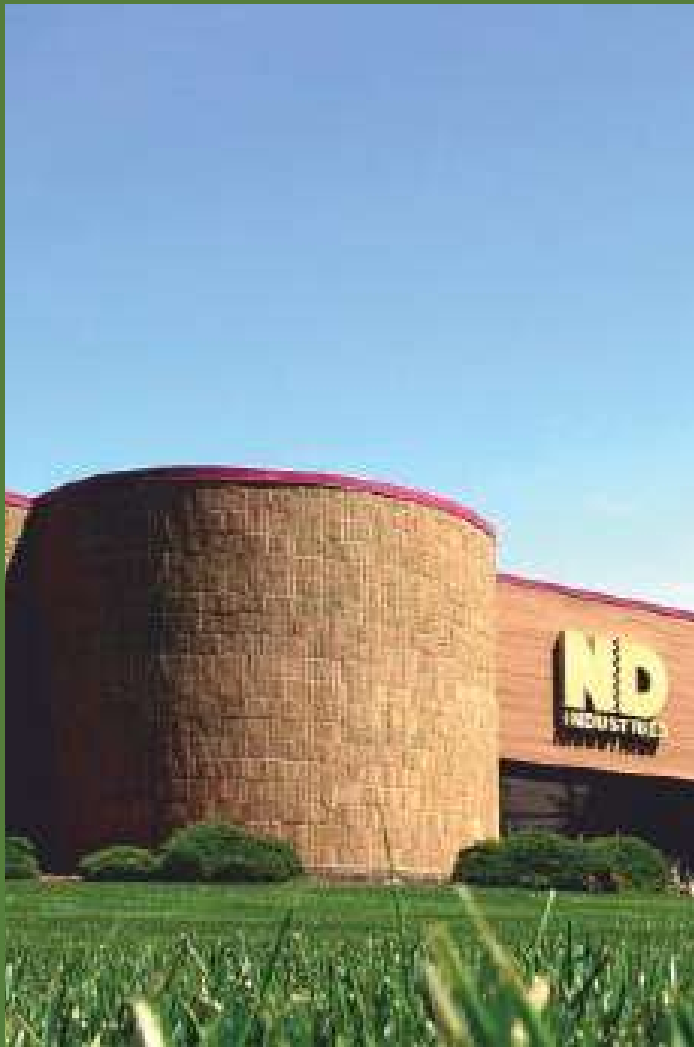
**UV CURABLES • EPOXIES • AND MORE!**



For almost fifty years now, Chembond has been operating on the principle of offering innovative, cutting edge products at significant value to its customers, the same philosophy with which Dr. Vinod D. Shah founded the company.

Chembond, listed on the Bombay Stock Exchange and National Stock Exchange, is family run yet professionally managed, and has a large team of researchers working on continuing these principles. Chembond manufactures and provides product and solutions for industrial water treatment, adhesives & sealants, construction chemicals, coatings, animal nutrition, and industrial biotechnology.

**Nationwide Presence:** With modern production facilities at Tarapur, Vadodara, Navi Mumbai, Alandi, conforming to the highest standards of ISO 9001, ISO 14000, IATF and OSHAS 18000, Chembond is a preferred choice company that is able to serve customers better and faster!



**Chembond and Vibra-TITE - a Winning Combination!** Chembond and ND Industries, Inc. of Clawson, Michigan, USA have formed an alliance to introduce the wide range of Kem Vibra-Tite industrial adhesives and pre-applied adhesives for,

- OEM's in the automotive, automotive components, agri and construction equipment, appliances, engineering, rail, jewellery, eyeglass, electronics, and defence industries.
- MRO operations in refineries, steel plants, cement plants, power plants, chemical and fertiliser plants, pharmaceuticals, mining, pulp & paper, etc.

ND Industries, is one of the world market leaders in anaerobics, cyanoacrylates, epoxies, and pre-applied technologies. Vibra-Tite is quickly becoming one of the most highly respected names in the adhesive industry. As a result of the in-house capabilities of ND Industries and Chembond, Kern Vibra-Tite is able to offer high performance adhesives that deliver value to the customer.



# Kem® Vibra-TITE® PRODUCT LINE CARD

We provide locking, sealing, lubrication and adhesive products for industrial assemblies



## Threadlockers

Lock and seal threaded fasteners.

**Types:** Low Strength, Medium Strength, Oil Tolerant, High Strength, Permanent Strength.



## VC-3 Threadmate

Non-traditional threadlocker. Adjustable; Removable; Reusable. Prevents loosening of fasteners from shock and vibration.



## Thread Sealants

Seal and secure metal pipes and fittings.

**Types:** Hydraulic, Pneumatic, Refrigerant, General Purpose, Controlled & High Strength.



## Retaining Compounds

Increase shear strength on non-threaded, cylindrical metal assemblies.

**Types:** General Purpose, High Strength, Impact Resistant, Rapid Curing, Core Plug Sealant, High Temperature.



## Anaerobic Gasketing

Remains in liquid state when exposed to air. Cures when confined between mating flanges.

**Types:** Gear Boxes, Oil Sump, Pumps, Compressors, Transmission Housings, Axle Covers.



## UV Light Cure

Light Cure Adhesives are single-part, photo initiated acrylates that cure on demand when exposed to light

**Types:** UV potting and bonding glass to plastic substrates, bonding metals, glass and ceramic materials.



## Structural Adhesives

Activated acrylic adhesive designed for fast fixturing.

**Types:** High-Impact Structural Adhesive for metal, composite, plastic, wood, ceramic and many other substrates.



## Tamper Detection Markers

Visually Identifies Loose Fasteners.

**Types:** Inspection paste applied across completed fittings, assemblies, nuts, bolts and studs to show whether a part has been moved from its original position.



## Cyanoacrylates (Super Glues)

Single-part, quick-fixturing, clear adhesives.

**Types:** Multi-Purpose, wicking grade, metal bonder, plastic bonder, shock resistant, rubber toughened.



## Epoxy Adhesives

One and two component grades exhibit a very strong bond between substrates.

**Types:** Excellent adhesion on steel, ceramics, magnets & other metal.



## RTV Silicones

One component RTV silicones are designed for use in mechanical assemblies.

**Types:** Fast curing, permanently flexible with good weather, pressure and oil resistance capabilities.



## Pipe Repair Kit

Quick Repair Kit for active pipe leaks is a leak repair system that requires no shutdown.

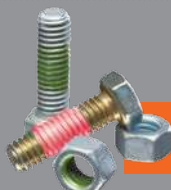
**Types:** Applicable on any metal or non-metal pipes and used in many industries.



## Epoxy Putty

Designed for a wide range of applications from sealing, repairing, to abrasion and corrosion resistance.

**Types:** Seal, patch, and mending compound for various surfaces such as plastic, glass, wood, steel and metals.



## Pre Applied

Chembond's service centers can Pre-Apply Chembond products on Chembond-supplied or customer supplied fasteners.

**Types:** Products have been categorized by their function: Inert Locking, Reactive Locking, Advanced Sealing, Masking and Lubricating, and Assemble EZ.

# Kem® Vibra-TITE® THREADLOCKERS

- Locks and seals threaded fasteners
- Prevents loosening from shock and vibration
- Performs better than mechanical lockers
- Alleviates rust-lock
- Prevents leakage

**Kem Vibra-TITE Threadlockers** lock and seal threaded fasteners. Liquid threadlockers are considered to be the most effective method of locking threaded fasteners because they unitize the entire assembly. They perform better than traditional mechanical devices such as lock washers, preventing any loosening from shock and vibration.



| KEM Vibra-Tite Part # | Available Sizes | Product Description   | Colour | Viscosity (cP)          | Max Gap Fill (in) | Torque Strength, Break/Prevail (in Nm) | Temp Range °C | Fixture Time (min.) | Specific Gravity | Specs Met                                   |
|-----------------------|-----------------|---|--------|-------------------------|-------------------|--|---------------|---------------------|------------------|---|
| <b>111</b>            |                 | <b>LOW STRENGTH</b>   |        |                         |                   |  |               |                     |                  |   |
| 11150                 | 50 mL Bottle    | Easy to remove - for fasteners smaller than 6 mm in diameter.                 | Purple | 1200 - 5000 Thixotropic | 0.18              | 8 / 3                                  | -55 to 150    | 10 - 30             | 1.05             | MIL-S-46163A<br>ASTM D-5363<br>NSF Non-Food |
| 11125                 | 250 mL Bottle   |   |        |                         |                   |  |               |                     |                  |   |
| <b>121</b>            |                 | <b>MEDIUM STRENGTH</b>  |        |                         |                   |  |               |                     |                  |   |
| 12150                 | 50 mL Bottle    | Removable Grade for fasteners 6 mm to 18 mm in diameter.                      | Blue   | 1200 - 5000 Thixotropic | 0.18              | 15 / 5                                 | -55 to 150    | 10 - 30             | 1.07             | MIL-S-46163A<br>ASTM D-5363<br>NSF Non-Food |
| 12125                 | 250 mL Bottle   |   |        |                         |                   |  |               |                     |                  |   |
| <b>122</b>            |                 | <b>OIL TOLERANT</b>   |        |                         |                   |  |               |                     |                  |   |
| 12225                 | 50 mL Bottle    | Used on fasteners from 6 mm to 18 mm in diameter.                             | Blue   | 1200 - 5000 Thixotropic | 0.38              | 22 / 8                                 | -55 to 150    | 5 - 10              | 1.03             |   |
| 12200                 | 250 mL Bottle   |   |        |                         |                   |  |               |                     |                  |   |
| <b>131</b>            |                 | <b>PERMANENT STRENGTH</b>   |        |                         |                   |  |               |                     |                  |   |
| 13150                 | 50 mL Bottle    | Permanently locks nuts and bolts up to 25 mm diameter.                        | Red    | 1800 - 5000 Thixotropic | 0.18              | 23 / 25                                | -55 to 150    | 5 - 20              | 1.05             | MIL-S-46163A<br>ASTM D-5363<br>NSF Non-Food |
| 13125                 | 250 mL Bottle   |   |        |                         |                   |  |               |                     |                  |   |
| <b>137</b>            |                 | <b>HIGH TEMP / HIGH STRENGTH</b>  |        |                         |                   |  |               |                     |                  |   |
| 13750                 | 50 mL Bottle    | Permanently locks nuts and bolts up to 38 mm diameter.                        | Red    | 9500                    | 0.18              | 34 / 28                                | -55 to 230    | 5 - 60              | 1.11             |   |
| 13725                 | 250 mL Bottle   |   |        |                         |                   |  |               |                     |                  |   |
| <b>140</b>            |                 | <b>PERMANENT STRENGTH</b>   |        |                         |                   |  |               |                     |                  |   |
| 14050                 | 50 mL Bottle    | Permanently locks nuts and bolts up to 25 mm diameter.                        | Red    | 500                     | 0.18              | 28 / 31                                | -55 to 150    | 10 - 30             | 1.1              | MIL-S-46163A<br>ASTM D-5363                 |
| 14025                 | 250 mL Bottle   |   |        |                         |                   |  |               |                     |                  |   |
| <b>146</b>            |                 | <b>PERMANENT STRENGTH</b>   |        |                         |                   |  |               |                     |                  |   |
| 14650                 | 50 mL Bottle    | Permanently locks nuts and bolts up to 38 mm diameter.                        | Red    | 7000                    | 0.250             | 34 / 28                                | -55 to 150    | 10 - 20             | 1.12             | MIL-S-46163A<br>ASTM D-5363                 |
| 14625                 | 250 mL Bottle   |   |        |                         |                   |  |               |                     |                  |   |
| <b>150</b>            |                 | <b>MEDIUM STRENGTH WICKING GRADE</b>  |        |                         |                   |  |               |                     |                  |   |
| 15050                 | 50 mL Bottle    | Used on pre-assembled fasteners up to 12 mm diameter and porous die castings. | Green  | 12                      | 0.100             | 10 / 28                                | -55 to 150    | 5 - 20              | 1.08             | MIL-S-46163A<br>ASTM D-5363<br>NSF Non-Food |
| 15025                 | 250 mL Bottle   |   |        |                         |                   |  |               |                     |                  |   |



Kem and Vibra-Tite are registered trademarks of Chembond Chemicals Ltd. Mumbai, India and ND Industries, Inc, USA respectively

# Not an Adhesive! Not an Anaerobic! **Kem Vibra-TITE®**

**Kem Vibra-TITE VC-3 Threadmate** is a powerful locking and sealing coating for threaded fasteners that works on the principle of “friction through viscosity”. Kem Vibra-Tite VC-3 Threadmate utilizes a special blend of acrylic resins to prevent fasteners from loosening even under the stress of prolonged and extreme shock and vibration. Kem Vibra-Tite VC-3 also works to resist leakage at fastening points by acting as a dam between mated threads.

Available sizes:  
30 mL Bottle with Brush  
\*Made to Order



## One Tough Application!

- Stops fasteners from loosening from extreme shock and vibration
- Works with metal, wood, pp and ppe plastics and more
- Fasteners are easily adjusted, removed and reused
- Works on fasteners of any shape or size, from tiny spectacle screws to large construction bolts



**This product is approved by TACOM\* for use on the U.S. Army's main battle tank!**



\*US Army Tank-automotive and Armaments Command Part# 11663357

## Vibra-Tite® VC-3® Threadmate Specifications

|  |   |
|--|---|
| <b>Color</b>                             | Red (custom colors can be manufactured dependent on quantity)                                   |
| <b>Solvent</b>                           | Methyl ethyl ketone. Also available in Ethyl Acetate, Methyl Propyl Ketone & Dimethyl Carbonate |
| <b>Cured form</b>                        | Resilient plastic   |
| <b>Shelf life</b>                        | Indefinite (under ideal storage conditions)   |
| <b>Chemical resistance</b>               | Offers resistance to most solvents (acts as a partial corrosion barrier)                        |
| <b>Dries to touch</b>                    | In several minutes  |
| <b>Dries for use</b>                     | 10-30 minutes. For critical applications 24 hrs is recommended.                                 |
| <b>Drying method for bulk production</b> | Best achieved using considerable airflow in addition to temperature not exceeding 54°C          |
| <b>Operational temperature range</b>     | -54°C to +74°C for other temperature applications, please consult factory                       |
| <b>Reusable</b>                          | 5 Years under cool condition, away from direct sunlight.  |
| <b>Engagement torque</b>                 | Moderate  |
| <b>Breakaway</b>                         | No distinct break; slow, fluid release as material cold flows                                   |
| <b>Standard coating length</b>           | 1 to 1 1/2 times diameter   |
| <b>Lead thread requirement</b>           | None  |
| <b>Thread fill requirement</b>           | 30 - 50% of the thread root area  |

Note: See MSDS for Safety & Material Handling Instructions

**Kem Vibra-Tite VC-3 Threadmate** meets or exceeds the performance requirements of the following specifications and/or standards:

### MILITARY:

- Lockheed Martin: 11663357, CAGE # 18876, P5407, 507-13-410, P5407, P5407-1
- General Dynamics: 13233419
- Harris Corporation: DWG. P30-0013
- National Stock Number: 8030-00-163-5792
- Naval Sea Sys Comm: 5174855
- Raytheon: DWG. 998730
- US Army Missile Comm: P5407-1, MIS-28867A
- US Air Force: #19207
- US Army Tank Automotive Command GD: #11663357

### OEM:

- Allied Signal: PCS5618, EMS73314
- Atlanta Research: SP 10234
- Delphi: 00047127
- Detroit Diesel: 9S244
- Grumman Aerospace: GF105VP
- Leco Corporation: 764-709
- Meritor (Rockwell): 005-2308-010



# Kem® Vibra-TITE® THREAD SEALANTS

- Seals and secures metal pipes and fittings
- Fills the space between threaded metal parts
- Prevents leakage caused by tape shredding, vibration loosening, solvent evaporation, or damaged threads
- Prevents corrosion and galling of threads
- Low and high pressure applications
- Seals to burst strength of most piping systems
- Facilitates assembly
- Service removable



**Kem Vibra-TITE Thread Sealants** seal and secure metal pipes and fittings, by filling the space between threaded metal parts. Thread sealants prevent leakage caused by tape shredding, vibration loosening, solvent evaporation, and damaged threads. Kem Vibra-Tite products are designed for both low and high pressure applications. Thread sealants seal to the burst strength of most piping systems. Because of the lubricating properties, Kem Vibra-Tite thread sealants make it easy to assemble fittings as well as prevent galling of the threads. For repairs, parts may be disassembled with basic hand tools.

#### Benefits:

- Lubricates during assembly
- Provides controlled disassembly torque
- Easy dispensing
- Seals regardless of assembly torque
- Good chemical and temperature resistance, 150°C
- Instant seal
- Seals to the burst rating of the pipe
- Seals and secures metal fittings

| Kem Vibra-Tite Part # | Available Sizes | Product Description  | Colour | Viscosity (cP)        | Max Gap Fill (in) | Sealing Pressure (MPa) | Temp Range °C | Fixture Time (min.) | Suggested Primer | Specs Met |  |
|-----------------------|-----------------|--|--------|-----------------------|-------------------|------------------------|---------------|---------------------|------------------|-----------|--|
| <b>420</b>            |                 | <b>CONTROLLED STRENGTH - SLOW CURE</b>   |        |                       |                   |                        |               |                     |                  |           |  |
| 42050                 | 50 mL Tube      | Industrial grade, controlled locking strength, metal fittings. High Temp & high performance. Gasoline resistant. | White  | 150,000-550,000 Paste | 0.300             | 70                     | -55 to 150    | 60                  | 611              |           |  |
| 42025                 | 250 mL Tube     |  |        |                       |                   |                        |               |                     |                  |           |  |
| <b>427</b>            |                 | <b>MEDIUM STRENGTH - STAINLESS STEEL</b>   |        |                       |                   |                        |               |                     |                  |           |  |
| 42750                 | 50 mL Tube      | High Performance Sealant.  | Yellow | 420,000               | 0.300             | 70                     | -55 to 150    | 90                  | 611              |           |  |
| 42725                 | 250 mL Tube     |  |        |                       |                   |                        |               |                     |                  |           |  |
| <b>440</b>            |                 | <b>PNEUMATIC / HYDRAULIC SEALANT</b>   |        |                       |                   |                        |               |                     |                  |           |  |
| 44050                 | 50 mL Tube      | Pneumatic and hydraulic sealant for fluid, power and gas system connections.                                     | Purple | 16,000                | 0.175             | 70                     | -55 to 150    | 30                  | 611              |           |  |
| 44025                 | 250 mL Tube     |  |        |                       |                   |                        |               |                     |                  |           |  |
| <b>460</b>            |                 | <b>HIGH TEMPERATURE - STAINLESS STEEL</b>  |        |                       |                   |                        |               |                     |                  |           |  |
| 46050                 | 50 mL Tube      | General purpose. For stainless steel and other inert metal threaded pipes and fittings resistant.                | White  | 356,000               | 0.300             | 70                     | -55 to 150    | 60                  | 611              | GM 118607 |  |
| 46025                 | 250 mL Tube     |  |        |                       |                   |                        |               |                     |                  |           |  |



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# Kem<sup>®</sup> Vibra-TITE<sup>®</sup> RETAINING COMPOUNDS

- Increases the shear strength on non-threaded cylindrical metal assemblies
- Fills voids between close-fitting metal assemblies
- Creates a solid one-piece assemblies
- Seals joints against leakage
- Prevents corrosion
- UV / Blacklight indicator



**Kem Vibra-TITE Anaerobic Retaining Compounds** are designed to increase shear strength on non-threaded, cylindrical metal assemblies. The liquid anaerobic material fills voids between close-fitting metal assemblies. It cures to a toughened thermoset-plastic which creates a solid one piece assembly. Retaining compounds seal joints against leakage and prevent corrosion. These materials have gained wide acceptance as a standard method for assembling press-fit and slip-fitted parts.

### Benefits:

- Reduce machining costs
- 100% surface contact
- Eliminate part replacement
- Press/Shrink fits can be replaced with slip fits
- No expensive finishes required
- Increase mechanical strength of the assembly
- Retains and seals, eliminates corrosion and seizure
- Restore fit to worn or out-of tolerance assemblies
- Part distortion is eliminated

| Kem Vibra-Tite Part # | Available Sizes | Product Description   | Viscosity (cP) | Max Gap Fill (mm) | Shear Strength (PSI) | Temp Range °C | Fixture Time (min.) | Specific Gravity | Suggested Primer | Specs Met                                |
|-----------------------|-----------------|---|----------------|-------------------|----------------------|---------------|---------------------|------------------|------------------|--|
| <b>530</b>            |                 | <b>GENERAL PURPOSE</b>  |                |                   |                      |               |                     |                  |                  |  |
| 53050                 | 50 mL Bottle    | General purpose for: rotors, augment press fits, shafts, bushings, bearings and pulleys.            | 125            | 0.125             | 2300+                | -55 to 150    | 10 - 20             | 1.1              | 611              | MIL-R-46082<br>ASTM D-5363<br>GM-1183024 |
| 53025                 | 250 mL Bottle   |   |                |                   |                      |               |                     |                  |                  |  |
| <b>538</b>            |                 | <b>HIGH STRENGTH</b>  |                |                   |                      |               |                     |                  |                  |  |
| 53850                 | 50 mL Bottle    | High strength for loose fitting parts.  | 2500           | 0.375             | 4000+                | -55 to 150    | 5                   | 1.09             | 611              |  |
| 53825                 | 250 mL Bottle   |   |                |                   |                      |               |                     |                  |                  |  |
| <b>541</b>            |                 | <b>HIGH STRENGTH - SLIP FIT</b>   |                |                   |                      |               |                     |                  |                  |  |
| 54150                 | 50 mL Bottle    | High strength gap filling. Permanently retains slip-fit for rotors, shafts, impellers, and splines. | 1200           | 0.375             | 3000+                | -55 to 150    | 20 - 40             | 1.11             | 611              | NSF Non-Food                             |
| 54125                 | 250 mL Bottle   |   |                |                   |                      |               |                     |                  |                  |  |
| <b>546</b>            |                 | <b>IMPACT RESISTANT</b>   |                |                   |                      |               |                     |                  |                  |  |
| 54650                 | 50 mL Bottle    | Flexible for impact resistance.   | 600            | 0.375             | 2000+                | -55 to 150    | 20 - 40             | 1.09             | 611              |  |
| 54625                 | 250 mL Bottle   |   |                |                   |                      |               |                     |                  |                  |  |
| <b>548</b>            |                 | <b>RAPID CURING</b>   |                |                   |                      |               |                     |                  |                  |  |
| 54850                 | 50 mL Bottle    | Fast fixturing for close fitting parts, high strength for stainless steel.                          | 500            | 0.175             | 3500+                | -55 to 175    | 5                   | 1.09             | 611              |  |
| 54825                 | 250 mL Bottle   |   |                |                   |                      |               |                     |                  |                  |  |
| <b>567</b>            |                 | <b>HIGH TEMPERATURE - LARGE GAP</b>   |                |                   |                      |               |                     |                  |                  |  |
| 56750                 | 50 mL Bottle    | High temperature gap filling for rotors, shafts, bushing, bearings and pulleys.                     | 7000           | 0.375             | 3500+                | -55 to 230    | 20 - 30             | 1.16             | 611              | GM-1183024                               |
| 56725                 | 250 mL Bottle   |   |                |                   |                      |               |                     |                  |                  |  |



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# Kem® Vibra-TITE® ANAEROBIC GASKETING



**Benefits:**

- Remain liquid when exposed to air
- Cures when confined between mating flanges
- Can fill gaps as large as 0.5 mm
- Alleviates the need for pre-formed gaskets
- Can be used as a form-in-place gaskets

**Typical Applications:**

- Thermostats
- Pumps
- Greaboxes
- Compressors
- Transmission housings
- Axle covers

| Kem Vibra-Tite Part # | Available Sizes | Product Description  | Colour | Viscosity (cP)                  | Max Gap Fill (mm)                | Temp Range °C | Cure Speed                                   | Suggested Primer | Specs Met  |  |
|-----------------------|-----------------|--|--------|---------------------------------|----------------------------------|---------------|--|------------------|------------|--|
| <b>710</b>            |                 | <b>HIGH TEMPERATURE RIGID FLANGE SEALANT</b>   |        |                                 |                                  |               |  |                  |            |  |
| 71050                 | 50 mL Tube      | High temperature rigid flange sealant withstands temperatures up to 400°F.   | Pink   | 188,000 - 500,000 Thixotropic   | Unprimed: 0.250<br>Primed: 0.500 | -55 to 150    | Unprimed: 4-24 hrs<br>Primed: 30 min - 4 hrs | 611              |            |  |
| 71025                 | 250 mL Tube     |  |        |                                 |                                  |               |  |                  |            |  |
| <b>724</b>            |                 | <b>FAST FLANGE SEALANT</b>   |        |                                 |                                  |               |  |                  |            |  |
| 72450                 | 50 mL Tube      | Provides fast low pressure seal.   | Orange | 62,000 - 300,000 Thixotropic    | Unprimed: 0.250<br>Primed: 0.500 | -55 to 150    | Unprimed: 4-24 hrs<br>Primed: 30 min - 4 hrs | 611              |            |  |
| 72425                 | 250 mL Tube     |  |        |                                 |                                  |               |  |                  |            |  |
| <b>730</b>            |                 | <b>FLEXIBLE GASKET MAKER - SOLVENT RESISTANT</b>   |        |                                 |                                  |               |  |                  |            |  |
| 73050                 | 50 mL Tube      | Suitable for aluminium and rigid machined flanges.   | Red    | 800,000 - 3,750,000 Thixotropic | Unprimed: 0.250<br>Primed: 0.500 | -55 to 150    | Unprimed: 1-14 hrs<br>Primed: 15 min - 2 hrs | 611              | GM 1182863 |  |
| 73025                 | 250 mL Tube     |  |        |                                 |                                  |               |  |                  |            |  |
| <b>732</b>            |                 | <b>FLEXIBLE GASKET MAKER</b>   |        |                                 |                                  |               |  |                  |            |  |
| 73250                 | 50 mL Tube      | General purpose gasket maker that flexes with flanges.   | Purple | 275,000 - 950,000 Thixotropic   | Unprimed: 0.250<br>Primed: 0.500 | -55 to 150    | Unprimed: 4-24 hrs<br>Primed: 30 min - 4 hrs | 611              |            |  |
| 73225                 | 250 mL Tube     |  |        |                                 |                                  |               |  |                  |            |  |
| <b>611</b>            |                 | <b>ANAEROBIC PRIMER - HEPTANE BASE</b>   |        |                                 |                                  |               |  |                  |            |  |
| 611                   | 100 mL Bottle   | A flammable but ozone friendly product that speeds cure of all anaerobic fluids and assists in speeding fixture times and reducing ultimate cure times | Green  | 3                               |                                  |               |  |                  |            |  |

# Kem® Vibra-TITE® UV CURE

Light Cure Adhesives are single-part, photo initiated acrylates that cure on demand when exposed to light.



| Kem Vibra-Tite Part # | Available Sizes | Product Description  | Cure Type         | Color       | Key Substrates | Viscosity (cP)  | Temp Range, °C | Fixture Time                                  |  |
|-----------------------|-----------------|--|-------------------|-------------|----------------|-----------------|----------------|---|--|
| <b>215</b>            |                 | <b>BONDING &amp; POTTING LIGHT CURE ADHESIVE</b>   |                   |             |                |                 |                |   |  |
| 215                   | 50 mL           | Designed for UV potting and bonding glass to plastic substrates.                               | UV/Visible        | Clear       | Glass, Plastic | 3500            | -54 to 120     | < 10 sec @ 100 mW/cm2                         |  |
| <b>230</b>            |                 | <b>IMPACT RESISTANT LIGHT CURE ADHESIVE</b>  |                   |             |                |                 |                |   |  |
| 230                   | 50 mL           | Cure either by UV, heat or activator, designed for bonding metals, glass and ceramic materials | UV/Heat/Activator | Clear/Amber | Glass, Metal   | 14,000 - 25,000 | -54 to 190     | " < 10 sec with UV<br>< 6 min with Activator" |  |



# Kem® Vibra-TITE® STRUCTURAL ADHESIVES

A methacrylate technology, room temperature curing, non-sagging, no-mix system comprised of resin and hardener. It forms structural bonds on metal, composite, plastic, wood, ceramic and many other substrates. Ideal for parts where extended open time is needed.

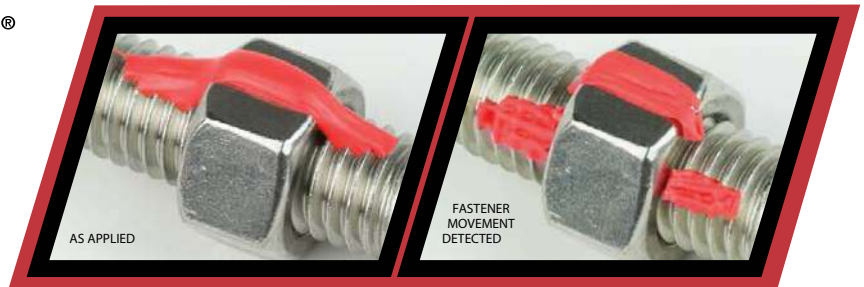


| Kem Vibra-Tite Part # | Available Sizes | Product Description  | Viscosity (cP)  | Appearance | Temp Range, °C | Fixture Time (with activator) | Specific Gravity | Max Gap Fill | Shear Strength (psi) |
|-----------------------|-----------------|--|-----------------|------------|----------------|-------------------------------|------------------|--------------|----------------------|
| <b>224</b>            |                 | <b>HIGH-IMPACT STRUCTURAL ADHESIVE</b>                     |                 |            |                |                               |                  |              |                      |
| 224                   | 50 mL Bottle    | An activated acrylic adhesive designed for fast fixturing. | 10,000 - 25,000 | Clear      | -53 to 150     | 5 - 10 mins                   | 1.05             | 1 mm         | 2500 - 3600          |

# VIZ-TORQUE®

TAMPER DETECTION MARKER

VISUALLY IDENTIFIES  
LOOSE FASTENERS



Viz-Torque is an inspection paste applied across completed fittings, assemblies, nuts, bolts and studs to show whether a part has been moved from its original position.



## Easy to use

Simply apply a single bead of Viz-Torque material across the assembled fasteners and allow to dry. No need to prepare surfaces.



## Fast Identification

A bright, highly visible colored paste which will fluoresce under black light, making it easy to detect without requiring testing.



## Dries Quick

Skins over in 20 seconds, dries in 20 minutes and is fully cured in 24 hours. Dry time can be reduced by increasing air flow.

## FEATURES

- ✓ Exhibits good adhesion to most metals when applied to a clean, dry surface.
- ✓ Helps quality control by providing warranty management in the event of tampering.
- ✓ Does not easily wash off with water or mild solvents.
- ✓ Compatible with most metals, paints and plastics.

## COLORS

1 oz. (30 mL) tube of Viz-Torque is available in a variety of colors to meet your visual identification needs.



Kem® and Viz-Torque® are registered trademarks of Chembond Chemicals Ltd. Mumbai, India and ND Industries, Inc, USA respectively

# Kem TITE<sup>®</sup> CYANOACRYLATES

## Benefits:

- Bonds to a variety of dissimilar materials
- High strength on narrow surface areas
- Special grades for bonding metals or porous substrates
- Shock and impact resistant instant adhesives

## Typical Bonding Applications:

- Circuit board wires
- Ceramic, fabric, metal and leather bonding
- Molded parts such as automotive weather striping, wiper blades
- Speaker cones
- Equipment identification tags
- Control panel switches
- Rubber pads for equipment base or legs



| Kem Tite Part # | Available Sizes                       | Product Description   | Viscosity (cP) | Max Gap Fill (mm) | Shear Strength (MPa) | Temp Range °C | Fixture Time | Specific Gravity | Base    | Specs Met                 |
|-----------------|---------------------------------------|---|----------------|-------------------|----------------------|---------------|--------------|------------------|---------|---------------------------|
| <b>300 HV</b>   |                                       | <b>MEDIUM VISCOSITY MEDIUM SETTING</b>  |                |                   |                      |               |              |                  |         |                           |
| 300 HV          | 20 gm Bottle                          | Ideal for bonding plastics, rubber, metal.  | 250-300        | 0.15              | 10 to 20             | -50 to 82     | 2-30 sec     | 1.06             | Ethyl   |                           |
| <b>301-I</b>    |                                       | <b>FAST SETTING CYANOACRYLATE ADHESIVE</b>  |                |                   |                      |               |              |                  |         |                           |
| 301-I           | 20 gm Bottle                          | Low viscosity, medium velocity cyanoacrylate adhesive for use on pretreated metal to rubber parts, plastics, wood etc.  | 1 - 5          | 0.04              | 20                   | -55 to 82     | 15 sec       | 1.05             | Ethyl   |                           |
| <b>302</b>      |                                       | <b>MEDIUM VISCOSITY, MEDIUM SETTING</b>   |                |                   |                      |               |              |                  |         |                           |
| 30220           | 20 gm Bottle                          | A medium viscosity, medium setting velocity cyanoacrylate adhesive for use on pretreated metal to rubber parts, plastics, wood etc.   | 80 - 100       | 0.15              | 9.8                  | -55 to 80     | 20 sec       | 1.06             | Ethyl   |                           |
| <b>303</b>      |                                       | <b>GENERAL PURPOSE - CLEAR</b>  |                |                   |                      |               |              |                  |         |                           |
| 30320           | 20 gm Bottle                          | A very low viscosity, fast setting velocity cyanoacrylate adhesive ideal for bonding preassembled parts, plastics, TPR Elastomers, difficult to bond rubber compounds like EPDM, nitrile, neoprene, viton, EVA, SBS rubber, ABS, Plasticised & rigid PVC.   | 2 - 5          | 0.1               | 9.8                  | -55 to 80     | 5 sec        | 1.05             | Ethyl   |                           |
| <b>306</b>      |                                       | <b>SURFACE INSENSITIVE - WICKING - CLEAR</b>  |                |                   |                      |               |              |                  |         |                           |
| 30620           | 20 gm Bottle                          | A medium low viscosity, fast setting velocity cyanoacrylate adhesive ideal for bonding preassembled parts, plastics, TPR elastomers, difficult to bond rubber compounds like EPDM, nitrile, neoprene, viton, EVA, SBS rubber, ABS, Plasticized & rigid PVC. | 18 - 26        | 0.1               | 22                   | -55 to 93     | 15 sec       | 1.06             | Ethyl   | A-A3097 Type II - Class 1 |
| <b>315</b>      |                                       | <b>METAL &amp; RUBBER BONDER - CLEAR</b>  |                |                   |                      |               |              |                  |         |                           |
| 31520           | 20 gm Bottle                          | A medium viscosity, medium setting velocity methyl-based instant cyanoacrylate adhesive. Well suited to metals and suitable for rubbers and plastic, pretreated metal to rubber parts.  | 40 - 70        | 0.1               | 15                   | -55 to 80     | 15 sec       | 1.1              | Methyl  |                           |
| <b>380</b>      |                                       | <b>RUBBER TOUGHNEO - SHOCK / TEMPERATURE RESISTANT - BLACK</b>  |                |                   |                      |               |              |                  |         |                           |
| 38020           | 20 gm Bottle                          | Black colored, rubber toughened shock vibration, temperature resistant with medium setting time. Ideal for automotive rubber parts, loudspeaker voice coil, mouting electrical components, bonding auto bumper strips.                                      | 300 - 400      | 0.15              | 20                   | -55 to 105    | 50 sec       | 1.06             | Ethyl   |                           |
| <b>393</b>      |                                       | <b>HVHT - FAST SETTING</b>  |                |                   |                      |               |              |                  |         |                           |
| 39320           | 20 gm Bottle                          | A high viscosity, fast setting cyanoacrylate adhesive ideal for bonding plastics, rubber, and metal.  | 1800-2200      | 0.15              | 10 to 20             | -55 to 120    | 5-30 sec     | 1.06             | Ethyl   |                           |
| <b>395</b>      |                                       | <b>SURFACE INSENSITIVE - MEDIUM VISCOSITY</b>   |                |                   |                      |               |              |                  |         |                           |
| 39520           | 20 gm Bottle                          | A medium viscosity medium setting velocity ethyl cyanoacrylate adhesive, ideal for use on EPDM rubber, metals and plastic parts.  | 45 - 65        | 0.06              | 20                   | -55 to 82     | 40 sec       | 1.05             | Ethyl   |                           |
| <b>399</b>      |                                       | <b>CYANOACRYLATE PRIMER</b>   |                |                   |                      |               |              |                  |         |                           |
| 399             | 200 mL, 500 mL, 1 L Aluminium Bottles | Used to make other low energy surfaces such as polyethylene, polypropylene, and thermoplastic rubbers, suitable for bonding with KVT cyanoacrylate adhesives.   | 2.4            | -                 | -                    | -             | -            | 0.78             | Heptane | -                         |

Kem<sup>®</sup> and Vibra-Tite<sup>®</sup> are registered trademarks of Chembond Chemicals Ltd. Mumbai, India and ND Industries, Inc, USA respectively

# Kem TITE EPOXY ADHESIVES

Epoxy Adhesives exhibit a very strong bond between substrates, One and two component grades available for various applications.

### Salient Features:

- Very high strength bonding
- Ease of application
- Excellent dimensional stability
- No shrinkage
- Excellent solvent & oil resistance

### Benefits:

- Excellent adhesion on steel, ceramics, magnets & other metal
- High shear strength
- Excellent chemical resistance
- High temperature resistant

### Application:

- Metal to magnet bonding
- Metal to metal bonding
- Magneto rotor assembly
- Electric motor assembly



| Kem Tite Part #    | Available Sizes                     | Product Description  | Viscosity (cP)                         | Shear Strength (kg/cm <sup>2</sup> ) | Temp Range °C | Fixture Time                                  | Specific Gravity              |
|--------------------|-------------------------------------|--|--|--------------------------------------|---------------|---|-------------------------------|
| <b>EP101</b>       |                                     | <b>ONE COMPONENT EPOXY ADHESIVE</b>  |  |                                      |               |   |                               |
| 91015              | 5 kg Metallic Tin                   | Heat-cure one component epoxy adhesive exhibits very high bonding strength to metals, magnets and ceramics.  | 1500 - 2500                            | >200                                 | <150          | 30 minutes at 150 ± 2°C                       | 1.30                          |
| <b>EP202</b>       |                                     | <b>TWO COMPONENT EPOXY ADHESIVE</b>  |  |                                      |               |   |                               |
| 92022              | 1.8 kg Plastic Container            | Kem Tite epoxy adhesive is a two component room temperature setting adhesive system.   | Resin: 250 to 500<br>Hardener: 250-500 | >180                                 | <120          | Pot life: 60-70 minutes.<br>Full cure: 24 hrs | Resin: 1.15<br>Hardener: 0.90 |
| <b>EP104</b>       |                                     | <b>ONE COMPONENT HEAT CURE</b>   |  |                                      |               |   |                               |
| 104                | 5 kg Pail                           | Epoxy adhesive that exhibits very high bonding strength to metals, plastics, and magnets.  | 250 to 350 P                           | >150                                 | <120          | 30 mins @ 120±2°C                             | 1.25                          |
| <b>EP105</b>       |                                     | <b>ONE COMPONENT HEAT CURE</b>   |  |                                      |               |   |                               |
| 105                | 5 kg Pail                           | Epoxy adhesive that exhibits very high bonding strength to metals, plastics, and magnets.  | 220 to 280 P                           | >150                                 | <120          | 30 mins @ 110±2°C or 60 mins @ 85±5°C         | 1.3                           |
| <b>EP203</b>       |                                     | <b>TWO COMPONENT HIGH STRENGTH</b>   |  |                                      |               |   |                               |
| 203                | 400 ml Dual Cartridge               | A thermosetting epoxy adhesive, providing strong joints with excellent low creep properties.   | Paste                                  | >200                                 | <80           | 5-8 hrs                                       | 1.5                           |
| <b>EP207 Clear</b> |                                     | <b>TWO COMPONENT CLEAR</b>   |  |                                      |               |   |                               |
| 207 Clear          | 1.3 kg (1 kg Resin, 0.3 kg Hardner) | Low viscous transparent epoxy adhesive which produces a tough, high strength bond. It can be used as an potting compound where transparency is required. | 3,000 to 6,000 cP                      |                                      | <80           | 4-5 hrs                                       | 1.15                          |
| <b>EP207 HV</b>    |                                     | <b>TWO COMPONENT HIGH STRENGTH</b>   |  |                                      |               |   |                               |
| 207 HV             | 1.5 kg (1 kg Resin, 0.5 kg Hardner) | A thermosetting epoxy adhesive, providing strong joints with excellent low creep properties.   | Paste                                  | > 150                                | <80           | 3-5 hrs                                       | 1.15                          |
| <b>EP211</b>       |                                     | <b>TWO COMPONENT HIGH STRENGTH</b>   |  |                                      |               |   |                               |
| 211                | 30 kg (27 kg Resin, 3 kg Hardner)   | A thermosetting epoxy adhesive, providing strong joints with excellent low creep properties.   | 2,000 to 6,000 cP                      |                                      | <180          | 24 hrs @ 25°C<br>1-4 hrs with heat            | 1.5                           |

# Kem SEAL RTV SILICONES

Kem Seal's range of one component RTV silicones are designed for use in mechanical assemblies. RTV Silicones create a "formed-in-place" gasket with excellent resistance to temperature, moisture, vibration, and weathering.



| Kem Tite Part # | Available Sizes                 | Product Description  | Colour             | Consistency | Elongation   | Tensile Strength (MPa) | Temp Range, °C | Tack-free Time @ 25 °C | Specific Gravity | Base       |
|-----------------|---------------------------------|--|--------------------|-------------|--------------|------------------------|----------------|------------------------|------------------|------------|
| <b>990</b>      |                                 | <b>MEDIUM VISCOSITY FAST CURING</b>  |                    |             |              |                        |                |                        |                  |            |
| 990             | 300 mL Cartridge                | A one part silicone that is low volatile, medium viscosity, fast curing, with good engine oil resistance and sealing ability. Widely used for gasketing and sealing applications.                | Red                | Paste       | 450%         | 1.6                    | -60 to 360     | 15 min                 | 1                | Neutral    |
| <b>777</b>      |                                 | <b>NEUTRAL SHOCK RESISTANT</b>   |                    |             |              |                        |                |                        |                  |            |
| 777             | 300 mL or 100 gm Aluminium Tube | A one part RTV neutral silicone sealant. Low odor, low volatility, no acetic acid liberation, corrosion, medium viscosity, fast curing speed, engine oil resistant, and high pressure resistant. | Clear/ Grey        | Paste       | >150%        | >1.5                   | -55 to 260     | 5-30 min               | 1.4              | Neutral    |
| <b>GP</b>       |                                 | <b>GENERAL PURPOSE</b>   |                    |             |              |                        |                |                        |                  |            |
| GP              | 280 mL Cartridge                | One part acetoxy silicone sealant. It is fast curing and permanently flexible with outstanding weather resistant. Suitable for sealing, repairing, glazing and mending of glass.                 | Clear              | Paste       |              | >0.2                   | 0 to 50        | <180 min               |                  | Acetoxy    |
| <b>MS 9300</b>  |                                 | <b>MS POLYMER</b>  |                    |             |              |                        |                |                        |                  |            |
| MS 9300         | 600 mL Sausage                  | One component, primer less, paintable, high quality joint sealant based on MS polymer technology. It is a solvent free, eco-friendly product.  | White/ Black/ Grey | Paste       | 200% to 600% | >1.8                   | -40 to 120     | 20-60 mins             | 1.4              | MS Polymer |



# Kem® TITE WRAP SEAL PIPE REPAIR KIT

Kem Tite Wrap Seal® ULTRA Quick Repair Kit for Active Pipe Leaks is a leak repair system that requires no shutdown. It can be used on any metal or non-metal pipes, and used in many industries such as oil and gas, petrochemical, offshore, marine, etc.



| Kem Tite Part # | Available Sizes                            | Product Description  | Pressure Resistance (psi) | Hardness   | Temp Range °C | Working Time (@ 30 C) |
|-----------------|--|--|---------------------------|------------|---------------|-----------------------|
| <b>206</b>      |  | <b>PIPE REPAIR KIT</b>   |                           |            |               |                       |
| 206             | 50 mm x 1.8 m Roll/<br>100 mm x 3.6 m Roll | A leak repair system that repairs leaks in 15 minutes and does not require shutdown. It is applicable on any metal or non-metal pipes and used in many industries such as oil and gas, petrochemical, offshore, marine, etc. | 150                       | 85 Shore D | <200          | 1 min                 |

# Kem® GUARD EPOXY PUTTY

Kem GUARD'S range of epoxy putties are easy-to-use general purpose putties designed for a wide range of applications from sealing and repairing, to abrasion and corrosion resistance. Ideal for maintenance purposes and on-the-job repairs.



| Kem Tite Part #    | Available Sizes | Product Description  | Colour/Finish | Viscosity (cP) | Pot Life (at 25°C) | Full Cure time | Temp Range °C | Specific Gravity | Application                    |
|--------------------|-----------------|--|---------------|----------------|--------------------|----------------|---------------|------------------|--------------------------------|
|                    |                 | <b>CERAMIC REINFORCED</b>  |               |                |                    |                |               |                  |                                |
| 5014               | 1 kg or 5 kg    | A two component, solvent free, ceramic reinforced epoxy with a high gloss, low friction coating designed to protect & seal new or repaired equipment against abrasion, corrosion, wear. Incorporates a unique filler ceramic & silicon carbide in the product ensure a tough coating.  | Grey/Gloss    | 20,000 ± 5,000 | 30 min             | Min. 7 days    | <125          | 1.4-1.5          | Brush/<br>Spatula              |
|                    |                 | <b>STEEL REINFORCED</b>  |               |                |                    |                |               |                  |                                |
| 5015               | 1 kg or 5 kg    | A fast curing, steel reinforced, two-part epoxy designed for making fast and curable repairs to a variety of metals. Typical applications include stripped threads, repairing leaks on pipes and elbows, rebuilding worn shafts and work surfaces in pumps and coating material surfaces subject to wear.  | Grey/Gloss    | Paste          | 8 min              | Min. 7 days    | 80 to 120     | 2.05-2.15        | Spatula                        |
|                    |                 | <b>HIGH BUILD</b>  |               |                |                    |                |               |                  |                                |
| 5016               | 1.5 kg or 6 kg  | A two component, solvent free, high build epoxy, novalac polyamine cured coating. This is used to seal and protect new or repaired surfaces from corrosion, cavitations, erosion & wear. Unique filler in the product ensure a tough, inert barrier for coating in highly corrosive areas due to novalac functionality & high cross linking density. | Ivory/Gloss   | 16000-20000    | 30 min             | Min. 2 days    | <125          | 1.5              | Airless Spray/<br>Brush/Roller |
|                    |                 | <b>STEEL EPOXY STICK</b>   |               |                |                    |                |               |                  |                                |
| Seal Stick (SS102) | 114 gm Stick    | A two component speciality epoxy putty stick which is ease to mix by hand. Use for permanent repairs to various substrates.  | Grey          | Putty          | 20 min             | 20 min         | -50 to 120    | 1.9              | By hand                        |

Kem® and Wrap Seal® are registered trademarks of Chembond Chemicals Ltd. Mumbai, India and Sealxpert Products, Singapore respectively



**PreApplied**

CMTPL partnered coating centers can Pre-Apply our products on customer supplied fasteners. The coating centers are tooled with state-of-the-art fastener processing equipment to provide quality products and rapid distribution.

**ONE OF THE INDUSTRY'S BROADEST PRODUCT LINES**

We offer a wide range of fastening and assembly related products and processes that exhibit one or more of the following characteristics:

- |             |                |                                   |
|-------------|----------------|-----------------------------------|
| Locking     | Re-Useability  | Noise and Vibration Reduction     |
| Sealing     | Cushioning     | Minimization of Galling/Stripping |
| Bonding     | Insulating     | Masking                           |
| Lubricating | Identification | Temporary Retention               |

In order to assist customers in understanding our current product line, the products have been categorized by their function: Inert Locking, Reactive Locking, Advanced Sealing, Masking and Lubricating, and Assemble EZ. In addition to the products listed here, we offer customized formulations for your unique fastening and assembly needs.

**CUSTOMERS SERVED**

With its growing family of fastening and assembly products and services, our products meet or exceed many of the rigorous standards established by the automotive, aerospace, and defense industries.

**Customers:**

- CHRYSLER
- GENERAL MOTORS
- FORD MOTOR COMPANY
- BOEING
- LOCKHEED MARTIN
- JOHN DEERE
- MACK TRUCK
- CUMMINS ENGINE
- VOLKSWAGEN
- GENERAL ELECTRIC

**Accreditations:**

- QS 9000 Registered
- ISO 9002 Registered
- ISO/IEC17025 Registered
- AS 9100 Registered
- QPL-18240 Listed
- QSLM Registered

**Member:**

Industrial Fasteners Institute

**INERT LOCKING**



**ND STRIP®**, **ND PELL-IT®**, **SURE TEMP**, **ND PELL-IT® SOFT TOUCH TIP**

ND inserts are offered in Nylon, KEL-F® or VESPEL® which ND Industries automatically inserts into a fastener, making it self-locking and self-sealing, yet fully adjustable.



**ND PATCH®** & **ND PATCH® 360° RING**

ND patch products make threaded fasteners self-locking and self-sealing, while leaving them fully adjustable. Compare to Tuf-Lok®



**Vibra-Tite® VC-3®**

Vibra-Tite VC-3 is not an anaerobic or an adhesive. It is a unique blend of acrylic resins that make any threaded fastener self-locking and self-sealing, while remaining service removable.

**REACTIVE LOCKING**



**EPOXY-LOCK®**

Epoxy-Lock is a powerful locking / sealing, adhesive which is pre-applied to either male or female threaded fasteners. Though the adhesive surface is dry to the touch, the forces of engagement initiate a chemical reaction.



**ND MICROSPHERES®**

ND Microspheres are offered in acrylic and epoxy formulations, available in pre-applied or bulk for application by other fastener coater / converters. Compare to 3M™ Scotch-grip™, LOCTITE® Dri-Loc®, & omniTECHNIK Precoat®.



**EXPAND-A-LOCK™**

Expand-A-Lock is an original 2-in-1 application and the most effective way to simultaneously lock and bond fasteners and seal against all air and fluid leakage.

**ADVANCED SEALING**



**ST-3®**

ST-3 is designed to be applied by ND or on the customer's automated band coating equipment or tumble coater. Compare to 3M™ Scotch-Grip™ 4291, and LOCTITE® Vibra-Seal® 516, 517, 503, and 503H.



**ND PLASTISOL**

ND Plastisol provides a positive seal that eliminates leaks. It is available in a wide variety of durometers and colors.



**ND PLASTISOL OPEN-MOULD**

ND Plastisol Open-Mold are parts made of moldable PVC materials that can seal, trim, cushion, insulate and control noise and vibration... often at a fraction of the cost of die cutting and injection molding.



**ND MASTICS & EXPANDABLES**

Crushable mastics evenly fill and seal all voids and are applied by the assembler. Heat causes the material in Expandables to expand and adhere to metal, creating a seal while filling in the gaps.



**SEALTEK™ 1120**

A medium viscosity, cure in place gasket. This system forms a resilient, soft and flexible gasket that can conform to almost any dimensional surface. Cures rapidly with heat or UV radiation.

**MASKING & LUBRICATING**



**ANTI-SEIZE 917 COMPOUND**

ND's 917 Anti-Seize compound is a high temperature lubricant formulated with Nickel to prevent seizing, galling, pitting and excessive wear and corrosion. Ideal where different metals come in contact. It will not wash or squeeze out.



**ND LM-1293®**

An automotive approved process, ND LM-1293 is a Teflon®-type fastener coating that lubricates and prevents undesirable substances from adhering to fastener threads. Compare to Nycote®.



**EZ Drive 300™**

An ergonomic assembly aid designed to increase installation efficiency by reducing friction by as much as 75%.

**ASSEMBLE EZ**



**STAY-PUT®**

Stay-Put provides temporary, yet dependable retention for fasteners or other components prior to and during the assembly process.



**ND COLOR CODE**

Whether your need is to identify some special characteristics or to color match a fastener head to a mating surface, ND is your source for color identification.

## PreApplied Products

### Inert Locking

Based on the principle of prevailing torque, inert thread locking processes create fasteners with instant retention and sealing properties along with the added benefit of adjustability and reusability. Inert threadlockers are highly chemical resistant and eliminate the need for costly lock washers, cotter pins, or castellated nuts.

| Product  | Pack Size | Product Description  | Color                 | Temp Range °C | Base    | Reusability  |
|----------|-----------|--|-----------------------|---------------|---------|--------------|
| ND Patch | 1kg/25kg  | An inert locking solution that makes fasteners self-locking and self-sealing while leaving them fully adjustable.  | Blue / Yellow / Green | -57 to 121    | Nylon   | Upto 5 times |
| VC-3     | 30 CC     | VC-3 is not an adhesive and it is not an anaerobic. It is a special blend of resins to prevent fasteners from loosening through a principle of "friction through viscosity". | Red                   | -54 to 74     | Acrylic | Upto 5 times |

### Reactive Locking

Reactive thread locking processes apply dry to the touch chemical adhesives to internally or externally threaded fasteners. During installation the encapsulated components mix, causing a chemical reaction which locks together and seals the mating parts. In specific formulations an expansion also occurs, filling the gaps between fastener threads.

| Product | Pack Size | Product Description   | Color  | Temp Range °C | Base    | Fixture time (M10 Dry Phosphate) | Full cure time |
|---------|-----------|---|--|---------------|---------|----------------------------------|----------------|
| 1193S   | 1kg/18kg  | These are microencapsulated, epoxy based, room temperature curing threadlocking adhesives, that when installed initiate a chemical reaction between the encapsulated resin and hardener to lock threaded fasteners in place.                            | Blue, Yellow, Pink, Green, Red & Bright Orange | -54 to 150    | Epoxy   | 4 hrs                            | 72 hrs         |
| 593S    | 1kg/18kg  |   | Blue   | -54 to 150    | Epoxy   | 4 hrs                            | 72 hrs         |
| AA 1096 | 1kg/18kg  | A microencapsulated, room temperature curing acrylic threadlocking adhesive that is applied to threaded fasteners of all sizes, materials and finishes. Acrylic threadlockers offer consistent torque values and require no heat or primers for curing. | Pink   | -54 to 150    | Acrylic | 2 min                            | 72 hrs         |

### Advanced Sealing

Whether sealing sheet metal, fastener threads, or under the head of fasteners, we have a process that will meet your requirements. ND pre-applied sealants are designed to withstand a wide range of pressures, chemical fluids and gases.

| Product  | Pack Size | Product Description  | Color        | Temp Range °C | Base  |
|----------|-----------|--|--------------|---------------|-------|
| ST3 L-5  | 1kg/19kg  | ST-3 creates a custom-fit elastic gasket around fastener threads which prevents the passage of most fuels and chemicals, and helps keep joints tight under severe vibration. | White        | -54 to 180    | Water |
| ST3 L-6  | 1kg/19kg  |  | Burnt Orange | -54 to 180    | Water |
| ST3 L-8  | 1kg/19kg  |  | White        | -54 to 180    | Water |
| ST3 L-13 | 1kg/19kg  |  | White        | -54 to 187    | Water |

### Masking and Lubricating

A range of processes developed to prevent fastener seizing, reduce installation torque, limit material adhesion, and more. ND's masking and lubricating processes help customers decrease assembly and disassembly time which leads to an increase in productivity. Pre-Applied fasteners are ready for use right out of the box with no curing or drying required.

| Product | Pack Size | Product Description   | Color                     | Temp Range °C | Base                                |
|---------|-----------|---|---------------------------|---------------|-------------------------------------|
| 1293    | 18kg      | A masking and lubricating coating containing a PTFE type material. The coating provides excellent solvent resistance, high temperature resistance, e-coat resistance, weld spatter resistance, resistance to most typically used automotive fluids, and improvement to torque-tension properties. | Purple, Teal, Pale Yellow | -54 to 200    | PTFE                                |
| SC603   | 18kg      | A pre-applied water-borne, cross linked coating providing excellent solvent resistance and good flexibility, without inducing hydrogen embrittlement.   | Black                     | NA            | Polyurethane Resin in water carrier |

ND, ND Industries, ND Strip, ND Peel-It, ND Patch, Epoxy-Lock, ND Microspheres, Expand-A-Seal ES0105, ST-3, ND LM-1293, VC-3 and Stay-Put are registered trademarks and SealTek and EZ Drive 300 are trademarks of ND Industries, Inc.



# Other Offerings

## ■ Automotive Sealants

- Paint shop sealers (UBC, Seam Sealers, RPC, Roof Ditch Sealers and Fuel Tank coating based on PVC)
- Mastic and Spot Weld (Pumpable & Preformed)
- Structural and Hemming Adhesives
- Butyl Tape & Preformed NVH products



## ■ Metal Treatment Chemicals

- Surface treatment chemicals for the automotive, steel, appliance, engineering, aluminum industries
- Coil coating chemicals and passivates for the steel and coil industry
- Metal working fluids and forging lubricants

## ■ Industrial Coatings

- Waterborne coatings for automotive and industrial components
- Solvent based and high solids coatings for agriculture & construction equipment
- Epoxy & PU coatings for industrial floors
- High performance coatings for tanks, pipelines, structures



## ■ MRO Products

- Products for Maintenance, Repair, Overhaul
- Rust cleaning & protection, chain lubricants, contact cleaners, cold galvanizing, anti-seize compounds, greases, touch up paints
- Hydraulic oils and other products for the defense industry

## ■ Paint Booth Solutions

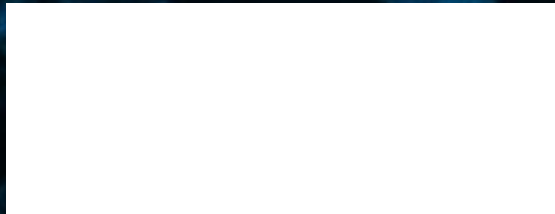
- Tack Cloths
- Paint Booth Water Treatment
- Paint Booth Coatings & Masking's
- Paint Strippers



# Kem® Vibra-TITE®



To Place An Order:



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