SealXpert® Products offer a range of proven maintenance and repair products that are unique in pipeline service. These products eliminate or minimize the cost of plants and equipment downtime.

Our range of maintenance and repair products are used for leak repair, corrosion protection, corrosion repair and reinforcement, parts repair and rebuilding, corrosion and wear coating, asset maintenance, fire protection, pipeline rehabilitation, etc. Each of the products are engineered to be applied on many applications.

Our products are in used in the following industries:

- Oil and Gas
- Offshore
- Petrochemical
- Chemical
- Marine
- Power Generation
- Pulp and Paper
- Mining and Metals
- Pharmaceutical
- Semiconductor and Electronics
- Manufacturing and Processing
- Marine
- Water and Waste Water
- Buildings and Facilities Maintenance

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</table>
Wrap Seal® Quick Repair Kit for Pipe Leaks

Features:
- Repairs leak in 30 minutes
- Applicable to pipes up to 18" (457 mm) diameter
- Applicable on any metal or non-metal pipes
- Repairs f-joint, elbow joint, valve thread, valve body
- Withstand pressure up to 400 psi (28 kg/cm²)
- Withstand temperature up to 200 °C (392 °F)
- Safe for drinking water and resistant to most chemicals
- Reinforce and strengthen pipe after repair
- Permanent repair and extend service life of pipes

Technical data:
Pressure tested: 1/2" (15 mm) steel pipe with 1/8" (3 mm) hole when repaired with Wrap Seal® withstands 4,000 psi (281 kg/cm²)
1/2" (15 mm) steel pipe with 1/2" (13 mm) hole when repaired with Wrap Seal® withstands 600 psi (42 kg/cm²)

Operating temperature: -50 °C to 200 °C (-58 °F to 392 °F)
Tensile strength: 3,920 psi (276 kg/cm²)
Bond strength: 230 psi (16 kg/cm²)
Compression strength: 13,750 ± 530 psi (967 ± 37 kg/cm²)
Yield strength: 2,260 psi (159 kg/cm²)
Cured hardness: 82 Shore D

Product selection guide:

<table>
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<tr>
<th>Pipe size</th>
<th>Number of rolls / size required</th>
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<tbody>
<tr>
<td>50 psi (4 kg/cm²)</td>
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<tr>
<td>¼&quot; (15mm)</td>
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<tr>
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<td>1½&quot; (40mm)</td>
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*Colour denotes roll size.

Pipe size | Number of rolls / size required |
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<tr>
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<tr>
<td>&gt; 18&quot; (450mm)</td>
<td>Contact SealXpert™ for recommendations</td>
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</table>

Wrap Seal® Offline Leak Repair Procedure:

1. Stop the pipe flow
2. Roughen the area to be repaired
3. Knead the Seal Stic®
4. Apply the Seal Stic® to fill in holes or crack of the damaged or leak area.
5. Immerse the Wrap Seal® Fiberglass Tape into water
6. Wrap the Wrap Seal® Fiberglass Tape around the repair area as tightly and evenly as possible, using the entire roll
7. Discard the plastic tube at the end of the roll
8. Wet gloves in water and quickly compress the bubbling resins back into the fiberglass wrap
9. Continue to polish the wrap until all bubbling has stopped. Repair completed with smooth and hard ivory appearance

Contact SealXpert™ for recommendations.
Wrap Seal® ULTRA Quick Repair Kit for Active Pipe Leaks

Features:
- Repairs under active leak up to 150 psi (11 kg/cm²) pressure
- No shutdown required
- Works on any metal or non-metal pipes
- Applicable to pipes up to 18" (457 mm) diameter
- Repairs leak in 15 minutes
- Withstand pressure up to 500 psi (35 kg/cm²)
- Withstand temperature up to 200 °C (392 °F)
- Safe for drinking water and resistant to most chemicals
- Ideal for pipeline reinforcement

Technical data:
- Operating temperature: -50 °C to 200 °C (-58 °F to 392 °F)
- Tensile strength: 3,920 psi (276 kg/cm²)
- Bond strength: 230 psi (16 kg/cm²)
- Compression strength: 13,750 ± 530 psi (967 ± 37 kg/cm²)
- Yield strength: 2,260 psi (159 kg/cm²)
- Cured hardness: 82 Shore D
- Dielectric strength: 400 Volts/mil

Product selection guide:

<table>
<thead>
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<tbody>
<tr>
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<td>3&quot; (80mm)</td>
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<tr>
<td>4&quot; (100mm)</td>
<td>1</td>
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</tbody>
</table>

* Roll size denotes roll size.

Application:
- Pipe repairs:
  - active pipe leaks
  - sealing joints
  - hazardous material spill control
  - reinforce thinning walls
  - Repairs in hard to reach areas
  - Underwater repairs

Package:
- 1 roll of Wrap Seal® + 1 roll of SealXpert® Ultra Fiberglass Tape
- 1 roll of SealXpert® Ultra Sealing Tape
- 1 unit of Seal Stic® Quick Cure Epoxy
- 1 pair of latex gloves
- Operating instruction

Pipe size | Number of rolls / size required |
<table>
<thead>
<tr>
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<tr>
<td></td>
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<td>16&quot; (400mm)</td>
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<tr>
<td>18&quot; (450mm)</td>
<td>5</td>
</tr>
<tr>
<td>&gt; 18&quot; (450mm)</td>
<td>Contact SealXpert™ for recommendations</td>
</tr>
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</table>

Wrap Seal® ULTRA Active Leak Repair Procedure:

1. Minimize the flow rate and reduce system pressure
2. Roughen the area to be repaired
3. Knead the Seal Stic®
4. Place the Seal Stic® away from the leak location
5. Start wrapping the SealXpert™ Ultra Sealing Tape a few distances away from the leak location
6. Continue to wrap SealXpert® Ultra Sealing Tape above the repair tape as tightly and evenly as possible, using the entire roll
7. Immerse Wrap Seal® Fiberglass Tape into water
8. Wrap the Wrap Seal® Fiberglass Tape above the repair tape as tightly and evenly as possible, using the entire roll
9. Discard the plastic tube at the end of the roll
10. Wet gloves in water and quickly compress the bubbling resins back into the fiberglass wrap until all bubbling has stopped. Repair completed with smooth and hard ivory appearance
SealXpert® Ultra Sealing Tape

Features:
- Seals active pipe leaks up to 150 psi (11 kg/cm²)
- High tensile and dielectric strength
- Superior bonding properties
- Bond to itself, no adhesive required
- Excellent air and moisture control
- Seals irregular shapes
- Flame-retardant
- Resists weathering

Technical data:
- Thickness: 0.02" (0.5 mm)
- Operating temperature: -50 °C to 180 °C (-58 °F to 356 °F)
- Tensile strength: 700 psi (49 kg/cm²)
- Elongation, Min.: 300%
- Specific gravity: 1.17
- Volume resistivity: $1 \times 10^{13}$ Ω/cm
- Water absorption: 3% by weight
- Dielectric strength: 400 Volts/mil
- Hardness: 50 Shore A
- Break strength: 40 lbs (18 kg)

Application:
- Permanent air-tight and water-tight seal in emergency situations
- Designed for quick plumbing repairs, sealing hoses, emergency O-ring, seals or to insulate electrical wiring
- Use for active pipe leak repairs, leaking joints and hazardous material spill control

Package:
- 1" x 16' (25 mm X 5 m)
- 1" x 33' (25 mm X 10 m)
- 1¼" x 16' (32 mm X 5 m)
- 1¼" x 33' (32 mm X 10 m)
- 2" x 16' (50 mm X 5 m)
- 2" x 33' (50 mm X 10 m)

SealXpert® Stainless Steel Pipe Clip

Features:
- Makes pipe clips from 2" (50 mm) to 382" (9,700 mm)
- Easy to use
- Versatile and fast to install
- No special tool is required
- Stainless steel 304 material
- Free to cut to any diameters required

Technical data:
- Material grade: All stainless steel 304
- Band length: 100’ (30.5 m)
- Band width: 0.5” (12.7 mm)
- Head: 0.3” (7.9 mm) slotted hex head screw
- Closure components: 0.6” (14.2 mm) wide fastener & screw housing assembly

Application:
- For securing, mounting, strapping, clamping and positioning
- Can be used for all conventional clamping jobs
- Make any sizes from 2" (50 mm) diameter to 382" (9703 mm) diameter within seconds

Package:
- 100’ (30.5 m) continuous length of stainless steel band
- 25 adjustable fasteners (worm drive buckles)
- 10 band splices
- Weight: 3kg per set

SealXpert® Stainless Steel Pipe Clip Installation Procedure:

1. Determine actual band length
2. Measure band to proper length and cut through center of nearest round hole with shears, snips, hacksaw, etc.
3. Engage one screw housing end to one perforated end by turning screw three or four times
4. Complete the clamp by diagonally inserting the ends of the engaged fastener assembly to the band through the tops of the square holes at each end of the band
5. Tighten finished clamp
Wrap Clamp™ WC1/WC2 Leak Repair Clamps

Features:
- WC1: Single side locking clamp
- WC2: Two side locking clamp
- Easy to handle, quick and simple to install
- No special tools or expertise required
- Stainless steel 304 material

Application:
- WC1: Applicable for pipeline pressure up to 363 psi (26 kg/cm²)
- WC2: Applicable for pipeline pressure up to 174 psi (12 kg/cm²)
- Suitable for all pipe materials
- Acts as compensator for thermal expansion and dampens vibration
- Operating temperature: NBR: -20 °C (-4 °F) to 100 °C (212 °F)

Sizes and technical data:

### WC1 Leak Repair Clamps

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<thead>
<tr>
<th>Model</th>
<th>O.D.</th>
<th>O.D. Range (mm)</th>
<th>Length, L (mm)</th>
<th>Max Expansion Distance (mm)</th>
<th>MAX Pipe Distance (for Connection), G (mm)</th>
<th>Pressure (psi)</th>
<th>Weight (kg)</th>
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<th>Max Expansion Distance (mm)</th>
<th>MAX Pipe Distance (for Connection), G (mm)</th>
<th>Pressure (psi)</th>
<th>Weight (kg)</th>
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No | Components | Materials |
---|------------|-----------|
1  | Casing     | SUS 304   |
2  | Rubber Sleeve | NBR    |
3  | Slade Plate | SUS 304   |
4  | Threaded Rod | SUS 304  |
5  | Bolts      | SUS 304   |
SealXpert® Repair Patch

Features:
- Easy to use, fast installation
- Hardens to a tough, durable waterproof finish in minutes
- Excellent adhesion to iron, steel, stainless steel, titanium, fiberglass, aluminum, wood, ceramics, composites, acrylics, PVC, and most other plastics

Technical data:
- Tensile strength: 10,000 psi (703 kg/cm²)
- Tensile modulus: 192,000 psi (13499 kg/cm²)
- Tensile elongation: 15-25%
- Dielectric strength: 250 volts/mils
- Flexural strength: 19,000 psi (1336 kg/cm²)
- Hardness: 70 Shore D

Application:
- Makes permanent, waterproof field repairs to pipes, tanks, vessels, and containers

Package:
- 8 cm x 12 cm

SealXpert® Repair Patch Application Procedure:
1. Leak on flat surface
2. Roughen the area to be repaired
3. Apply Seal Stic® to fill in holes or crack of the damaged or leak area
4. Immerse the SealXpert® Repair Patch into water
5. Apply SealXpert® Repair Patch onto the affected area

SealXpert® Expanded PTFE Tape

Features:
- Gasket tape made from pure, expanded, virgin PTFE
- Supplied with adhesive backing
- Quick and simple to install
- Reduced down time

Technical data:
- Colour: White
- Thickness: 0.2" (5 mm)
- Density: 0.65 g/cm³ ±0.1 g/cm³ (for rectangular cross sections only)
- Others: Physiologically harmless. It has no smell or taste. It is neither contaminating nor toxic

Application:
- Used in a wide variety of static application in nearly all kind of industries
- The exceptional malleability of expanded PTFE can compensate for out-of-parallel and/or damaged sealing surfaces and allows use with stress sensitive connections and applications where only a limited flange load is available
- Sealing of flanges, pump housings, compressors, hand-holes and manholes, air ducts, compensators, heat exchangers and etc.

Package:
- 2" x 10' (50 mm x 3 m)

SealXpert® Expanded PTFE Tape Application Procedure:
(For contact with aggressive chemicals and high temperature in leak repair applications)
1. Stop the pipe flow
2. Roughen the area to be repaired
3. Apply SealXpert® Expanded PTFE Tape with a stainless steel sheet metal
4. Restrain stainless steel sheet metal with SealXpert® Stainless Steel Pipe Clip
Composite Leak Repair

Composite Repair for Pipe and Tank Leaks:
- Customized solution for through wall defects for pipes and tank walls
- Compliant installed by trained and certified applicators
- Engineering Calculation Report for each repair
- Method of Statement for each repair
- Compliance to ISO/ TS 24817 and ASME PCC2 standards
- Provide excellent strength, bonding and chemical resistance
- Warranty for 20 years

First stage: Surface preparation
- Clean affected pipe / tank wall surface to St3 standard.
- Prepare surface roughness to approximately 60 to 80 microns

Second stage: Select suitable interface filler material and restraining material
- Select suitable interface filler material (e.g. SS106) to cover leak area
- Select suitable restraining material (e.g. SealXpert® Stainless Steel Pipe Clip with stainless steel sheet metal) to arrest leak

Third stage: Select suitable repair and rebuild compound
- Select suitable repair and rebuild compound (e.g. PS102) to coat affected pipe / tank wall surface

Fourth stage: Select suitable reinforcement wrapping material
- Select suitable reinforcement wrapping material (e.g. Wrap Seal PLUS® Fiberglass Repair Tape)
- Installed wrapping thickness is calculated based on ISO/ TS 24817 and ASME PCC2 Standards
Wrap Seal PLUS® Resin and Activator

Features:
- Corrosion barrier and isolator
- High adhesion strength
- Excellent alkali and acid resistance
- Ease of application by using paint rollers and paint brush
- Applicable for pipes, tanks, and large surfaces

Technical data:
- Colour - Resin: Natural
- Colour - Activator: Straw colour
- Viscosity: 20,000 – 40,000 cps at 21 °C (70 °F)
- Specific gravity: 1.85
- Compressive strength: 24,500 psi (1,723 kg/cm²)
- Tensile strength: 35,000 psi (2.461 kg/cm²)
- Bond strength: 2,900 psi (204 kg/cm²)
- Flexural strength: 42,000 psi (2,953 kg/cm²)
- Flexural modulus: 1.6x10⁶ psi (112,491 kg/cm²)
- Barcol hardness: 40 - 50 Shore D
- Coverage area (per set): 0.15 m² at 3 mm thickness

Application:
- Applied as corrosion coating on pipes, storage tanks, vessels, exhaust lines, bulkheads, machineries, joints, and large surfaces.
- Applied with Wrap Seal PLUS™ Uncoated Fiberglass Tape, Chopped Strand Mat or Surface Tissue for reinforcement, bonding and lamination

Package:
- 1 can of Wrap Seal PLUS™ Resin
- 1 bottle of Wrap Seal PLUS™ Activator
- Gross weight: 500 gm (1.1 lb)

Wrap Seal PLUS® Fiberglass Repair Tape

Features:
- Remediate, repairs and reinforces
- Durable, strong and permanent
- Restore pipes to original strength

Technical data:
- Tensile modulus: 3.8 x 10⁶ psi (267,166 kg/cm²)
- Tensile strength: 65,000 psi (4,570 kg/cm²)
- Flexural modulus: 3.6 x 10⁵ psi (253,105 kg/cm²)
- Flexural strength: 53,100 psi (3,733 kg/cm²)
- Compressive strength: 28,500 psi (2,004 kg/cm²)
- Dielectric strength: 20,000 Volts
- Hardness: 85 Shore D

Application:
- Applied onto thinning pipe walls for pipeline reinforcement
- Improve hoop strength of pipeline after repair
- Suitable for pipe diameter up to 60” (1,524 mm)
- Applicable for pipeline temperature up to 280 °C (536 °F)

Package:
- 4” x 20’ (100 mm x 6 m)
- 4” x 30’ (100 mm x 9 m)
- 6” x 20’ (150 mm x 6 m)
- 6” x 30’ (150 mm x 9 m)

Wrap Seal PLUS® Uncoated Fiberglass Repair Tape

Features:
- Made by weaving yarn into cloth on a loom state
- Suitable for the manufacturer of length-limitless pole, tube, tanks, pipes and structural products with high strength and high fiber content
- Not hazardous

Technical data:
- Glass type: E-Glass
- Weight: 156 gm/m²
- Thickness: 0.15 mm
- Weft: 14 yarns/inch
- Warp: 17 yarns/inch
- Weaving pattern: Plain
- Tensile strength - Weft: 430 N/cm
- Tensile strength - warp: 520 N/cm
- Softening point: 840 °C (1544 °F)
- Max. moisture absorption rate: 0.3 %

Application:
- Specially designed for use in filament winding applications with epoxy resin systems

Package:
- 2” x 328’ (50 mm x 100 m)
- 4” x 328’ (100 mm x 100 m)
Wrap Seal PLUS® Corrosion Repair Procedure for Pipes:

1. Corroded pipe surface
2. Roughen the area to be repaired
3. Mix and stir Wrap Seal PLUS® Resin and Activator for at least 1 minute until well mixed
4. Apply two coats of activated resin evenly over the area to be repaired and allow to cure
5. Immerse Wrap Seal PLUS® Fiberglass Repair Tape into water
6. Wrap the fiberglass repair tape as tightly and evenly as possible, with at least 50% overlap over affected pipe length
7. Discard the plastic tube at the end of the roll
8. Wet gloves in water and quickly compress the bubbling resins back into the fiberglass wrap until all bubbling has stopped. Repair completed with smooth and hard ivory appearance

Wrap Seal PLUS® Chopped Strand Mat

Features:
- Excellent conformability and handling
- Excellent weight uniformity
- Good mechanical properties
- Good laminate smoothness
- Non-hazardous

Technical data:
Appearance and odour : White / Off-white colored solid with odour
Density : 450 g/m²

Application:
- Applied with Wrap Seal PLUS® Resin and Activator to provide high tensile strength, impact, abrasion and corrosion resistance for large surfaces with low curvatures (storage tanks, vassals, etc.)
- Designed as surface rebuilding over large surfaces

Package:
- 39” x 210’ (1 m x 64 m)
- Weight: 30 kg

Wrap Seal PLUS® Surface Tissue

Features:
- Excellent fiber distribution
- Good tear strength
- Good tensile strength
- Excellent weather-proofing
- Imposed seepage resistance
- Longer service life
- Non-hazardous

Technical data:
Appearance and odour : White / Off-white colored solid with odour
Glass type : C
Fiber diameter : 12.5µm ± 1
Binder type : Styrene-acrylic
Thickness : 0.01” (0.25 mm)

Application:
- Applied with Wrap Seal PLUS® Resin and Activator to provide high tensile strength, impact, abrasion, and corrosion resistance for large surfaces (storage tanks, vassals, etc.)
- Designed to be used as a surfacing tissue to provide a gel-coat/resin reinforcement and a smooth resin-rich surface to the composite

Package:
- 39” x 820’ (1 m x 250 m)
- Weight: 9.5 kg
Wrap Seal PLUS® Corrosion Repair Procedure for Flat Surfaces and Tank:

1. Corroded surface
2. Roughen the area to be repaired
3. Mix and stir Wrap Seal PLUS® Resin and Activator for at least 1 minute until well mixed
4. Apply two coats of activated resin evenly over the area to be repaired and allow to cure
5. Apply several layers of Wrap Seal PLUS® Surface Tissue or Wrap Seal PLUS® Chopped Strand Mat onto the affected area

Composite Corrosion Repair

Composite Repair for Pipeline Reinforcement:
- Customized solution for thin wall defects for pipes and tank walls
- Compliant installed by trained and certified applicators
- Suitable for wall loss up to 80%
- Engineering Calculation Report for each repair
- Method of Statement for each repair
- Compliance to ISO/ TS 24817 and ASME PCC2 standards
- Provide excellent strength, corrosion and chemical resistance
- Warranty for 20 years

First stage: Surface preparation
- Clean affected pipe / tank wall surface to St3 standard.
- Prepare surface roughness to approximately 60 to 80 microns

Second stage: Select suitable coating / repair and rebuilding compound
- Select suitable coating / repair and rebuilding compound (e.g. Wrap Seal PLUS® Resin and Activator) to coat on affected area

Third stage: Select suitable reinforcement wrapping material
- Select suitable reinforcement wrapping material (e.g. Wrap Seal PLUS® Fiberglass Repair Tape)
- Installed wrappiong thickness is calculated based on ISO/ TS 24817 and ASME PCC2 Standards
SealXpert® Underwater Petro Paste

Features:
- Petrolatum based compound
- Contains no Volatile Organic Compounds
- Can be applied by inexperienced personnel
- No shut downs or cure time is necessary

Technical data:
- Solid content: 100%
- Flash point: > 180 °C (> 356 °F)
- Specific gravity: 1.08
- Specific volume: 925 cc/kg
- Coverage: 2-5 mm²/kg
- Temperature range:
  - For application: 5 °C (41 °F)
  - For service: -25 °C to 50 °C (-13 °F to 122 °F)

Application:
- Can be applied to marginally prepared surfaces (SSPC SP 2-3)
- Applied to very wet or underwater surfaces
- May be applied underwater by gloved hand, stiff bristle brush or roller
- Preparation of metal surfaces underwater prior to the application of SealXpert® Petro Tapes

Package:
- 2.5kg pails
- 25kg drums

SealXpert® Petro Tape

Features:
- Non-hardening and non-cracking
- Highly resistant to mineral acids, alkalis, salts and micro-organisms
- Highly impermeable to water, water vapour and gases
- Used for the protection of buried or exposed pipes, rods, cables, valves and metal fittings from corrosion

Technical data:
- Dielectric strength: 250 Volts/mil
- Thickness: 1.1 mm
- Breaking strength: 7,200 N/m
- Elongation at break: 20%
- Flash point: > 40 °C (104 °F)
- Water vapour transmission: < 1.0 Ng/Pa.S.m²
- Petrolatum components: 60%
- Drop melting point: 84 °C (183 °F)
- Cone penetration: 6.3 mm

Application:
- Protection of surfaces, mains, cables and all metal work, both below and above ground
- Water proofing seal for temporary cable joints and openings
- Protection of grafts in horticulture
- Repair and protect such items as gutters, down pipes, cracks in asbestos roofing
- Seal glazing bars and cracks in glass

Package:
- 2" x 33' (50 mm x 10 m)
- 4" x 33' (100 mm x 10 m)
- 6" x 33' (150 mm x 10 m)
- 8" x 33' (200 mm x 10 m)

SealXpert® Underwater Petro Paste and Petro Tape Application Procedure:

1. Priming pipes, rods and cables. Apply SealXpert® Underwater Petro Paste to entire area to be wrapped with tape.
2. Apply SealXpert® Petro Tape. Start at the 9 o’clock position. Ensure that the compound side of tape is to the substrate.
3. Starting a new roll of tape. Overlap ends of tape by one tape width.
4. Overlapping each turn by 55% gives a double thickness.
SealXpert® Poly Inner Wrap 980

Features:
- Worldwide reference lists
- Uniform coating thickness
- Resistant to soil stress
- Impermeable to oxygen and moisture
- Low cathodic protection-current requirements
- Compatible with all pipe diameters and generic plant coatings systems
- Max operating temperature: 85 °C (185 °F)

Technical data:

<table>
<thead>
<tr>
<th></th>
<th>980-20</th>
<th>980-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backing colour</td>
<td>Black</td>
<td>Black</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.5 mm</td>
<td>0.63 mm</td>
</tr>
<tr>
<td>Backing</td>
<td>9 mils (0.229 mm)</td>
<td>10 mils (0.254 mm)</td>
</tr>
<tr>
<td>Adhesive</td>
<td>11 mils (0.279 mm)</td>
<td>15 mils (0.381 mm)</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>55 N/cm</td>
<td>52 N/cm</td>
</tr>
<tr>
<td>Elongation</td>
<td>≥ 400 %</td>
<td>225 %</td>
</tr>
<tr>
<td>Peel adhesion to primed steel</td>
<td>30 N/cm</td>
<td>33 N/cm</td>
</tr>
<tr>
<td>Cathodic disbondment</td>
<td>0.24 in. radius (6.4 mm)</td>
<td>0.25 in. radius (6.4 mm)</td>
</tr>
<tr>
<td>Water vapor transmission rate</td>
<td>&lt; 0.1 %</td>
<td>0.5 g/m²/24 hr</td>
</tr>
<tr>
<td>Dielectric breakdown</td>
<td>26 kV/mm</td>
<td>25.6 kV/mm</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>30 kV</td>
<td>20-23 kV</td>
</tr>
</tbody>
</table>

SealXpert® Poly Outer Wrap 955

Features:
- Worldwide reference lists
- Uniform coating thickness
- Resistant to soil stress
- Impermeable to oxygen and moisture
- Low cathodic protection-current requirements
- Compatible with all pipe diameters and generic plant coatings systems
- Max operating temperature: 85 °C (185 °F)

Technical data:

<table>
<thead>
<tr>
<th></th>
<th>955-20</th>
<th>955-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backing colour</td>
<td>White</td>
<td>White</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.5 mm</td>
<td>0.63 mm</td>
</tr>
<tr>
<td>Backing</td>
<td>15 mils (0.381 mm)</td>
<td>20 mils (0.508 mm)</td>
</tr>
<tr>
<td>Adhesive</td>
<td>5 mils (0.127 mm)</td>
<td>5 mils (0.127 mm)</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>70 N/cm</td>
<td>70 N/cm</td>
</tr>
<tr>
<td>Elongation</td>
<td>450 %</td>
<td>400 %</td>
</tr>
<tr>
<td>Peel adhesion to primed steel</td>
<td>33 N/cm</td>
<td>33 N/cm</td>
</tr>
<tr>
<td>Cathodic disbondment</td>
<td>0.24 in. radius (6.4 mm)</td>
<td>0.25 in. radius (6.4 mm)</td>
</tr>
<tr>
<td>Water vapor transmission rate</td>
<td>0.5 g/m²/24 hr</td>
<td>0.5 g/m²/24 hr</td>
</tr>
<tr>
<td>Dielectric breakdown</td>
<td>26 kV/mm</td>
<td>25.6 kV/mm</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>23-26 kV</td>
<td>20-23 kV</td>
</tr>
</tbody>
</table>

SealXpert® Poly Inner Wrap and Poly Outer Wrap Application Procedure:
(For underground pipes and field joint applications)

1. Priming pipes, rods and cables.
2. Apply SealXpert® Poly Inner Wrap.
3. Apply SealXpert® Poly outer Wrap.
4. Overlapping each turn by 55% gives a double thickness.

Application:
- Corrosion protection of steel pipelines
- Can also be used for ductile iron pipes

Package:
- 2" x 99' (50 mm x 30 m)
- 4" x 99' (100 mm x 30 m)
- 6" x 99' (150 mm x 30 m)
Seal Stic® Quick Cure Epoxy Sticks

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS102 Steel Epoxy Slick</td>
<td>• Pre-mixed steel-based formulation</td>
<td>• Bonds to dry surfaces</td>
</tr>
<tr>
<td></td>
<td>• Can be drilled, tapped, machined or painted</td>
<td>• Bonds to metals, concrete and plastics</td>
</tr>
<tr>
<td></td>
<td>• Non-toxic and solvent-free</td>
<td>• Cures at room temperature</td>
</tr>
<tr>
<td>SS103 Aluminium Epoxy Slick</td>
<td>• Pre-mixed aluminium-based formulation</td>
<td>• Repairs to non-rusting aluminium castings</td>
</tr>
<tr>
<td></td>
<td>• Can be drilled, tapped, machined or painted</td>
<td>• machinery and equipment</td>
</tr>
<tr>
<td></td>
<td>• Non-toxic and solvent-free</td>
<td>• Fills porosity in aluminium castings</td>
</tr>
<tr>
<td>SS104 Bronze Epoxy Slick</td>
<td>• Pre-mixed bronze-based formulation</td>
<td>• Bonds securely to bronze, brass &amp; copper alloys</td>
</tr>
<tr>
<td></td>
<td>• Can be drilled, tapped, machined or painted</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Non-toxic and solvent-free</td>
<td></td>
</tr>
<tr>
<td>SS106 Underwater Epoxy Slick</td>
<td>• Pre-mixed ceramic-based formulation</td>
<td>• Suitable for moist and wet conditions</td>
</tr>
<tr>
<td></td>
<td>• Can be drilled, tapped, machined or painted</td>
<td>• Excellent resistance to oil and chemicals</td>
</tr>
<tr>
<td></td>
<td>• Non-toxic and solvent-free</td>
<td>• Bonds to metallic and non-metallic surfaces</td>
</tr>
</tbody>
</table>

Technical data:
- Colour:
  - SS102 Steel Epoxy Slick: Dark grey
  - SS103 Aluminium Epoxy Slick: Aluminium
  - SS104 Bronze Epoxy Slick: Bronze
  - SS106 Underwater Epoxy Slick: Light yellow
- Compressive strength: 12,000 psi (844 kg/cm²)
- Tensile strength: 6,000 psi (422 kg/cm²)
- Shear strength: 900 psi (63 kg/cm²)
- Hardness: 80 Shore D
- Temperature range: -50 °C to 120 °C (-58 °F to 248 °F)
- Pot life (100g mixture): 10 min
- Min. curing time before function: 20 min

Package: 114 gram/tube

SealXpert® Metal Repair Putty

| Product                       | Features                                                        | Application                                                                                       |
|-------------------------------|                                                                |--------------------------------------------------------------------------------------------------|
| PS102 Steel Repair Putty (A)  | • Metal-filled two-component epoxy putty                       | • Suitable for repairing defects and rebuilding of steel and iron casting parts                    |
|                               | • Bonds to metals, concrete and plastics                       | • Recommended for repairing and rebuilding of worn components such as bearing and fan housing    |
|                               | • Cures at room temperature                                   |                                                                                                  |
|                               | • Excellent resistance to oil, gasoline, water and chemicals  |                                                                                                  |
|                               | • Ideal for patching and repairing areas where welding or     |                                                                                                  |
|                               |     brazing is undesirable                                     |                                                                                                  |
|                               | • Can be drilled, tapped, machined or painted                 |                                                                                                  |
| PS103 Aluminium Repair Putty  | • Aluminium -filled two-component epoxy putty                  | • Used for rebuilding of various aluminum casting parts                                           |
|                               | • Repairs to non-rusting aluminium castings, machinery and   | • Used for repairing aluminum casting air holes and sand holes, shrinkage and cracks              |
|                               |     equipment                                                  | • Used for filling oversize, scratch or damaged repairing                                        |
|                               | • Excellent resistance to chlofluorocarbons                   | • Applicable to general machines, automobiles, airplanes, watercraft etc.                        |
|                               | • Bonds to aluminium and other metals                         |                                                                                                  |
|                               | • Fills porosity in aluminium castings                        |                                                                                                  |
|                               | • Can be drilled, tapped, machined or painted                 |                                                                                                  |
| PS104 Bronze Repair Putty     | • Bronze -filled two-component epoxy putty                     | • Used for rebuilding and repairing of various bronze casting parts                               |
|                               | • Repairs to bronze and brass bushings, shafts, castings and  | • Used for repairing bronze casting air holes and sand holes, shrinkage and cracks                |
|                               |     parts                                                     | • Used for filling oversize, scratch or damaged repairing                                        |
|                               | • Repairs and rebuilds area where brazing is undesirable or   | • Applicable to watercrafts, machines, automobiles, mining machineries etc.                      |
|                               |     impossible                                               |                                                                                                  |
|                               | • Bonds securely to bronze alloys, brass, copper and ferrous  |                                                                                                  |
|                               |     metals                                                    |                                                                                                  |
|                               | • Can be drilled, tapped, machined or painted                 |                                                                                                  |

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## SealXpert® Metal Repair Putty

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
</table>
| PS105 Stainless Steel Repair Putty | - Stainless steel-filled two-component epoxy putty  
- Patch, repair and rebuild stainless steel parts and equipment  
- Bonds to ferrous and non-ferrous metals  
- Non-rusting  
- Can be drilled, tapped, machined or painted | - Used for repairing stainless steel and steel parts defect repairing and worn part rebuilding  
- Applicable to watercrafts, machines, automobiles, mining machineries etc. |
| PS106 Underwater Repair Putty | - Ceramic-based two-component epoxy putty.  
- Suitable for moist and wet conditions  
- Excellent resistance to oil and chemicals  
- Bonds to metallic and non-metallic surfaces  
- Fills porosity and cracks on valves and pump bodies  
- Can be drilled, tapped, machined or painted | - Used for repairing pipeline, valve, pump shell, tank body and concrete under emergency  
- Used for leakage stopping for water machineries, watercrafts repairing, mines and buildings etc.  
- Used in splash zone repair in combination of SealXpert™ Fiberglass Repair Tapes |
| PS107 5 Min (SF) Repair Putty | - Fast-curing  
- Stainless steel-filled two-component epoxy putty  
- Suitable for quick and emergency repairs  
- Cures in less than one hour  
- Can be drilled, tapped, machined or painted | - Used for emergency and quick repairing of steel, iron, stainless steel etc. metal damaged parts, worn parts and leakage  
- Applicable to watercrafts, machines, automobiles, mining machineries etc. |
| PS108 Hi-Temp Repair Putty | - Withstands high temperature up to 230 °C (446 °F) (continuous) and 280 °C (536 °F) (intermittent)  
- Nickel alloy-filled two-component epoxy putty  
- Suitable for engine parts repairs  
- Can be drilled, tapped, machined or painted | - Used for repairing abrasion, scratch, and crack etc. on equipment operating at high temperature  
- Applicable to watercrafts, automobiles, machineries in petrochemical, power plant etc. |
| PS109 Supermetal Epoxy Putty | - Alloy and ceramic filled two-component epoxy putty  
- Excellent hardness  
- Cold welding repairing material  
- Versatile durable repair composite  
- Outstanding adhesion to all metals  
- Excellent corrosion resistance  
- Superior chemical resistance  
- Can be drilled, tapped, machined or painted | - Suitable for repairing worn rotating shafts  
- Applicable for making repairs that can be precision machined |
| PS110 Titanium Repair Putty | - Titanium filled two-component epoxy putty  
- High performance  
- Excellent chemical resistance  
- Withstands heavy loads in harsh chemical environments  
- Can be drilled, tapped, machined or painted | - Suitable for repairing and rebuilding on load bearing components  
- Applicable for repairs to machineries and equipment that can be precision machined |

### Package:
- 454 gram/set
- 227 gram/set (PS104)
**Technical data:**

<table>
<thead>
<tr>
<th>Product No./ Colour</th>
<th>Colour</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 102 Steel Repair Putty [A]</td>
<td>Grey</td>
<td>Ceramic microsphere and silicon alloy filled two-component epoxy coating</td>
<td>Designed to rebuild and pre-protect the machine worn by whirlpool, corrosion and cavitation erosion, water pump impellers, shell, induced-draft fan impeller etc.</td>
</tr>
<tr>
<td>PS 103 Aluminium Repair Putty</td>
<td>Grey</td>
<td>Suitable for application on vertical surfaces</td>
<td></td>
</tr>
<tr>
<td>PS 104 Bronze Repair Putty</td>
<td>Bronze</td>
<td>Coating has strong adhesion and excellent properties of wear and impact resistance</td>
<td></td>
</tr>
<tr>
<td>PS 105 Stainless Steel Repair Putty</td>
<td>Grey</td>
<td>Composed of modified epoxy, wear resistant ceramic and crystal mineral powder</td>
<td>Used for rebuilding and protecting metal material and concrete facilities against corrosion of acid/alkali solution</td>
</tr>
<tr>
<td>PS 106 Underwater Repair Putty</td>
<td>Brown</td>
<td>Thixotropic viscosity, suitable for application on vertical surface</td>
<td>Rebuilding and protective coating of various corroded pipeline, pump, valve, exchanger, etc.</td>
</tr>
<tr>
<td>PS 107 5 Min (SF) Repair Putty</td>
<td>Dark Grey</td>
<td>Excellent resistance to strong alkali and acid</td>
<td></td>
</tr>
<tr>
<td>PS 108 Hi-Temp Repair Putty</td>
<td>Dark Grey</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PS 109 Supermetal Epoxy Putty</td>
<td>Dark Grey</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PS 110 Titanium Repair Putty</td>
<td>Dark Grey</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SealXpert® Wear and Corrosion Resistant Coating**

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR204 Wear Resistant Coating</td>
<td>• Ceramic microsphere and silicon alloy filled two-component epoxy coating</td>
<td>• Designed to rebuild and pre-protect the machine worn by whirlpool, corrosion and cavitation erosion, water pump impellers, shell, induced-draft fan impeller etc.</td>
</tr>
<tr>
<td>WR211 Corrosion Resistant Coating</td>
<td>• Suitable for application on vertical surfaces</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Coating has strong adhesion and excellent properties of wear and impact resistance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Composed of modified epoxy, wear resistant ceramic and crystal mineral powder</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Thixotropic viscosity, suitable for application on vertical surface</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Excellent resistance to strong alkali and acid</td>
<td></td>
</tr>
</tbody>
</table>

**Package:**
- 500 gram/set

**Technical data:**

<table>
<thead>
<tr>
<th>Product No./ Colour</th>
<th>Colour</th>
<th>Compressive Strength</th>
<th>Tensile Strength</th>
<th>Shear Strength</th>
<th>Hardness</th>
<th>Temperature Range</th>
<th>Mixture (A:B)</th>
<th>Pot Life</th>
<th>Curing Time</th>
<th>Coverage Area (per set)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 204 Wear Resistant Coating</td>
<td>Dark grey</td>
<td>15,934 (1,122)</td>
<td>4,351 (306)</td>
<td>2,176 (153)</td>
<td>90</td>
<td>-50 to 121 (-58 to 250)</td>
<td>4:1</td>
<td>4:1</td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>WR 211 Corrosion Resistant Coating</td>
<td>Dark grey</td>
<td>13,053 (918)</td>
<td>4,351 (306)</td>
<td>1,450 (102)</td>
<td>73</td>
<td>-50 to 121 (-58 to 250)</td>
<td>5:1</td>
<td>4:1</td>
<td>60</td>
<td>-</td>
</tr>
</tbody>
</table>
SealXpert® Repair Putty and Coating Application Procedure:

1. Clean surface thoroughly with solvent
2. Prepare surface to SSPC SP3 Standard. Clean the surface again with solvent
3. Mix component A (Resin) and component B (Hardener) in accordance to the specified ratio
4. Continuously scrape material from the sides and bottom of container until uniform, streak-free consistency is obtained
5. Dispense the mixture to prepared surface with trowel
6. Allow curing in accordance to the minimum curing time at room temperature before operation

SealXpert® Repair Liquid and Putty

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
</table>
| PL102 Steel Repair Liquid | - Steel filled, liquid epoxy  
- Low viscosity, self-leveling liquid  
- Castable  
- Machinable to metallic finish  
- Low shrinkage  
- Resistant to chemicals and most acids, bases, solvents and alcohols | - Casting of steel components  
- Holding fixtures for intricate parts  
- Filling and leveling equipment  
- Repairing hard to reach areas where a flowable epoxy is needed  
- Duplicating or tracing masters  
- Short run dies and molds |
| PL103 Aluminium Repair Liquid | - Aluminium filled pourable epoxy  
- Can be machined, drilled, or tapped | - Casting of aluminium components  
- Used for mould-making, patterns, holding fixtures, leveling equipment |
| PL104 Rubber Repair Liquid | - High initial bonding strength  
- Good toughness  
- Curing at room temperature  
- Can be operated under low loading within 2 hours after bonding | - Designed to bond joint of fabric enforced multilayer rubber conveyor belt for metallurgy, building material, electric power, coal mine etc. industries  
- Can be used to bond rubber, leather, metal and ceramic to each other or to themselves |
| PL105 Rubber Repair Putty | - Fast curing at room temperature  
- Non-toxic after cured  
- Good flexibility  
- High tensile strength  
- High tearing strength  
- Good abrasion, corrosion, aging and impact resistance | - Repairing and bonding of worn fabric joints  
- Fill joint gaps  
- Reinforce rubber conveyor belts in metallurgy, power, coal mining, etc. industries |

Package:
- 500 gram/set (PL102/PL103/PL104)
- 350 gram/set (PL105)

Technical data:

**PL102 Steel Repair Liquid**
- Adhesive tensile shear: 2,800 psi (197 kg/cm²)
- Tensile strength: 3,220 psi (227 kg/cm²)
- Compressive strength: 10,196 psi (717 kg/cm²)
- Modulus of elasticity: 274,992 psi (19.334 kg/cm²)
- Dielectric strength: 1,181 volts/mm
- Flexural strength: 6,000 psi (394 kg/cm²)
- Hardness: 85 Shore D

**PL104 Rubber Repair Liquid**
- Pot life(100G@25°C): 80 min
- Peeling strength: 2 Hour - 25 N/cm
- Max. working temperature: 80 °C (176 °F)

**PL103 Aluminium Repair Liquid**
- Pot life(100G@25°C): 75 min
- Dielectric strength: 4 KV/mm
- Adhesive tensile shear: 2,698 psi (190 kg/cm²)
- Compressive strength: 9,863 psi (694 kg/cm²)
- Hardness: 85 Shore D

**PL105 Rubber Repair Putty**
- Pot life(100G@25°C): 7 min
- Peeling strength: 95 N/m
- Tensile strength: 2,900 psi (204 kg/cm²)
- Tearing strength: 70 N/cm
- Hardness: 75 Shore A
# SealXpert® Anaerobic Threadlocker

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
</table>
| AT222 Threadlocker | • Thixotropic viscosity, low strength  
• Easy removal, parts can be separated with hand tools | • Prevent threaded fasteners from vibration and leakage  
• Used for locking and sealing M2 - M8 (ideal for under M6) threaded fasteners, prevent thread from rust  
• Especially suitable for situation where easy disassembly is available, adjust locating screw, small diameter or long threaded fasteners |
| AT242 Threadlocker | • Medium strength, thixotropic viscosity  
• Controlled lubricity for accurate clamp loads  
• Easy removal, parts can be separated with hand tools | • Prevent loosening and leakage from shock and vibration  
• Used for locking and sealing M8 - M16 (Ideal below M8) threaded fasteners |
| AT243 Threadlocker | • Medium to high strength, thixotropic viscosity  
• Good oil resistance, can be used on the surface with slight oil contamination  
• Controlled lubricity for accurate clamp loads  
• Easy removal, parts can be separated with hand tools | • Prevent threaded fasteners from loosening and leakage  
• Used for locking and sealing M8 – M20 (ideal for under M18) threaded fasteners  
• Typically suitable for inert surface, such as stainless steel and electroplated surface |
| AT262 Threadlocker | • High strength, medium to low viscosity  
• Excellent chemical resistance  
• Good lubricity  
• Easy removal, parts can be separated with hand tools | • Prevent loosening and leakage from shock and vibration  
• Used for permanent locking and sealing M10 – M26 (ideal for under M20) threaded fasteners  
• Prevent rusty threads  
• Thread locking, sealing and engine plug sealing |
| AT270 Threadlocker | • Low viscosity, high strength  
• Excellent chemical resistance  
• Good lubricity  
• Heat and hand tools are required for disassembly | • Prevent loosening and leakage from shock and vibration  
• Used for locking and sealing threaded fasteners of M25 and larger  
• Prevent rusty threads |
| AT271 Threadlocker | • High strength, medium to low viscosity  
• Excellent chemical resistance  
• Good lubricity  
• Heat and hand tools are required for disassembly | • Prevent loosening and leakage from shock and vibration  
• Used for permanent locking and sealing M10 – M26 (ideal for under M22) threaded fasteners, prevent thread from rust  
• Typically used for stud end locking (such as cylinder head stud) |
| AT272 Threadlocker | • High temperature, high strength  
• Withstands temperatures up to 232 °C (450 °F)  
• Heat and hand tools are required for disassembly | • Permanent locking and sealing of threaded fasteners  
• Prevents loosening and leakage from shock and vibration  
• Used for locking and sealing of large bolts and studs (M25 and larger) |
| AT277 Threadlocker | • High strength, high viscosity  
• Excellent chemical resistance  
• Good lubricity  
• Heat and hand tools are required for disassembly | • Prevent loosening and leakage from shock and vibration  
• Used for permanent locking and sealing M24 - M36 threaded fasteners, prevent thread from rust  
• Typically used for large diameter thread locking and sealing |
| AT290 Threadlocker | • Low viscosity, medium strength, high penetrability  
• Wicking grade  
• Excellent chemical resistance  
• Seals 0.1mm gap welding seam, crack, dispersed shrinkage and casting micropores | • Prevent loosening and leakage from shock and vibration  
• Used for locking and sealing pre-assembled threaded fasteners under M12  
• Penetrate threads by capillary action  
• Prevent rusty threads |

**Package:**  
• 50 ml/bottle
### Technical data:

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Typical Use</th>
<th>Max Gap Fill mm</th>
<th>Uncured Viscosity mPas</th>
<th>Specific Gravity g/cm³</th>
<th>Breakaway Torque Nm</th>
<th>Prevalve Torque Nm</th>
<th>Temperature Range °C (°F)</th>
<th>Curing Speed Fixture min</th>
<th>Full Cure hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT222 Threadlocker</td>
<td>M2 – M8, removable</td>
<td>0.13</td>
<td>Purple 1,200 Thixotropic</td>
<td>1.05</td>
<td>6</td>
<td>4</td>
<td>-50 to 150 (-58 to 302)</td>
<td>10 - 20</td>
<td>24</td>
</tr>
<tr>
<td>AT242 Threadlocker</td>
<td>M8-M16, removable</td>
<td>0.13</td>
<td>Blue 1,700 Thixotropic</td>
<td>1.05</td>
<td>12</td>
<td>5</td>
<td>-50 to 150 (-58 to 302)</td>
<td>10 - 20</td>
<td>24</td>
</tr>
<tr>
<td>AT243 Threadlocker</td>
<td>M8-M20, slight oil contamination</td>
<td>0.13</td>
<td>Blue 2,250 Thixotropic</td>
<td>1.05</td>
<td>20</td>
<td>7</td>
<td>-50 to 150 (-58 to 302)</td>
<td>10 - 20</td>
<td>24</td>
</tr>
<tr>
<td>AT262 Threadlocker</td>
<td>M10-M26, permanent locking and sealing</td>
<td>0.13</td>
<td>Red 1,800 Thixotropic</td>
<td>1.10</td>
<td>22</td>
<td>30</td>
<td>-50 to 150 (-58 to 302)</td>
<td>10 - 20</td>
<td>24</td>
</tr>
<tr>
<td>AT270 Threadlocker</td>
<td>M25, permanent locking and sealing</td>
<td>0.13</td>
<td>Green 500</td>
<td>1.10</td>
<td>26</td>
<td>36</td>
<td>-50 to 150 (-58 to 302)</td>
<td>10 - 20</td>
<td>24</td>
</tr>
<tr>
<td>AT271 Threadlocker</td>
<td>M16-M26, permanent locking and sealing</td>
<td>0.13</td>
<td>Red 500</td>
<td>1.12</td>
<td>27</td>
<td>30</td>
<td>-50 to 150 (-58 to 302)</td>
<td>10 - 20</td>
<td>24</td>
</tr>
<tr>
<td>AT272 Threadlocker</td>
<td>M25-M80, permanent locking and sealing</td>
<td>0.25</td>
<td>Red-orange 4,000 - 15,000 Thixotropic</td>
<td>1.11</td>
<td>23</td>
<td>25</td>
<td>-55 to 200 (-67 to 392)</td>
<td>40</td>
<td>24</td>
</tr>
<tr>
<td>AT277 Threadlocker</td>
<td>M24-M36, permanent locking and sealing</td>
<td>0.25</td>
<td>Red 7,000</td>
<td>1.12</td>
<td>30</td>
<td>30</td>
<td>-50 to 150 (-58 to 302)</td>
<td>23 - 30</td>
<td>24</td>
</tr>
<tr>
<td>AT290 Threadlocker</td>
<td>Under M12, wicking grade</td>
<td>0.10</td>
<td>Green 12</td>
<td>1.08</td>
<td>10</td>
<td>26</td>
<td>-50 to 150 (-58 to 302)</td>
<td>5 - 15</td>
<td>24</td>
</tr>
</tbody>
</table>

---

**SealXpert® Anaerobic Thread Sealant and Thread Sealing String**

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS542 Thread Sealant</td>
<td>Thixotropic, low viscosity, medium strength</td>
<td>Used for sealing fine threads in pneumatic and hydraulic systems</td>
</tr>
<tr>
<td></td>
<td>Contains no fillers and will not foul pipeline system</td>
<td>Typically used for sealing fine pipe thread under M36</td>
</tr>
<tr>
<td>TS545 Thread Sealant</td>
<td>Thixotropic, low viscosity, low strength</td>
<td>Typicaly used for sealing and locking high hydraulic pressure power system, ideal for under M36 tapered thread</td>
</tr>
<tr>
<td></td>
<td>Good oil tolerance, can be used on surfaces with slight oil contamination</td>
<td>Will not foul or jam hydraulic and pneumatic fittings on surface, can be used with slight oil contamination</td>
</tr>
<tr>
<td></td>
<td>Contains no fillers and will not foul pipeline system</td>
<td>Mainly used for instant sealing of large diameter tapered/tapered, tapered/straight pipe thread and stainless steel connector</td>
</tr>
<tr>
<td></td>
<td>Prevent thread from corrosion</td>
<td>Prevent thread from corrosion</td>
</tr>
<tr>
<td>TS567 Thread Sealant</td>
<td>General purpose, low strength, coarse threads</td>
<td>Used for pipe thread sealing at rigorous operating condition or of large gap</td>
</tr>
<tr>
<td></td>
<td>Prevents leaks due to vibrational loosening and other stresses</td>
<td>Typically used for sealing stainless steel pipe thread or pressure sealing of taper/straight pipe thread below M80</td>
</tr>
<tr>
<td></td>
<td>Temperature resistance up to 250 °C (480 °F)</td>
<td>High viscosity, thixotropic, high strength</td>
</tr>
<tr>
<td></td>
<td>Excellent chemical resistance</td>
<td>Suitable for large gap sealing and fast curing</td>
</tr>
<tr>
<td>TS577 Thread Sealant</td>
<td>High viscosity, thixotropic, high strength</td>
<td>Used for sealing metal and plastic tapered pipe threads and fittings up to 4&quot; NPT (National Pipe Thread)</td>
</tr>
<tr>
<td></td>
<td>Contains no fillers and will not foul pipeline system</td>
<td>Used for industrial applications in aqueous and non-aqueous fluids</td>
</tr>
<tr>
<td></td>
<td>Suitable in threaded assembly applications that require immediate use and may undergo small readjustments before use</td>
<td>Immediate full pressure sealing</td>
</tr>
<tr>
<td></td>
<td>Allows reliable re-adjustments</td>
<td>Suitable in threaded assembly applications that require immediate use and may undergo small readjustments before use</td>
</tr>
<tr>
<td></td>
<td>Needs no cure time</td>
<td>Ideal choice for a quick, easy and reliable seal</td>
</tr>
</tbody>
</table>

**Package:**
- 50 ml/bottle
- 150 m/pcs (TS55)
Technical data:

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Typical Use</th>
<th>Max Diameter of Thread</th>
<th>Uncured</th>
<th>Cured</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>Viscosity</td>
<td>Specific Gravity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>mPa.s</td>
<td>g/cm³</td>
</tr>
<tr>
<td>TS542</td>
<td>Fine threads</td>
<td>M36</td>
<td>1,850</td>
<td>1.06</td>
</tr>
<tr>
<td>TS545</td>
<td>For hydraulic and pneumatic pipeline thread sealing</td>
<td>M36, tapered</td>
<td>14,000</td>
<td>1.05</td>
</tr>
<tr>
<td>TS567</td>
<td>General purpose, stainless steel pipe thread sealing</td>
<td>M80</td>
<td>550,000</td>
<td>1.15</td>
</tr>
<tr>
<td>TS577</td>
<td>Coarse thread sealing</td>
<td>M80, tapered/straight</td>
<td>100,000</td>
<td>1.10</td>
</tr>
<tr>
<td>TS55</td>
<td>General purpose pipe threads</td>
<td>N.A.</td>
<td>white</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

**SealXpert® Anaerobic Flange Sealant**

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
</table>
| FS510 Flange Sealant | • High viscosity  
• Medium strength  
• Excellent solvent and chemical resistance  
• High temperature resistant  
• Increases the torque capacity of assembled flanges | • Ideal for sealing rigid flange faces on transmissions and engine casings  
• Ideal for use on rigid flanges where high temperature and chemical resistance are necessary  
• General gasketing product suitable for hand dispensing or screen printing |
| FS515 Flange Sealant | • Thixotropic viscosity  
• General purpose  
• Excellent solvent and chemical resistance | • Flexible gasket after cured, withstands slight flange movement caused by vibration  
• Used for rigid machined parts flange sealing  
• Applicable to motive power machines such as automobile, engineering machine, internal combustion engine, mining equipment, etc., for heavy loading |
| FS518 Flange Sealant | • Thixotropic viscosity  
• Medium strength  
• Provides resistance to low pressures immediately after assembly of flanges | • Used for sealing flange of aluminium alloy parts, or the rigid structure machining parts with minor flange migration, enduring temperature, pressure and stress  
• Typically used as form-in-place gasket for motive power machines such as automobile, engineering machine, internal combustion engine, mining machine, pump etc. |

**Package:**
- 50 ml/bottle
Technical data:

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Typical Use</th>
<th>Max Gap Fill</th>
<th>Colour</th>
<th>Uncured Viscosity (mPa.s)</th>
<th>Specific Gravity (g/cm²)</th>
<th>Max. Seal Pressure (psi (kg/cm²))</th>
<th>Temperature Range (°C (°F))</th>
<th>Curing Speed</th>
<th>Full Cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS510 Flange Sealant</td>
<td>High temperature and solvent resistant</td>
<td>0.25</td>
<td>Pink</td>
<td>40,000 – 140,000</td>
<td>1.10</td>
<td>4,641 (326)</td>
<td>-55 to 200 (-67 to 392)</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>FS515 Flange Sealant</td>
<td>General purpose</td>
<td>0.25</td>
<td>Purple</td>
<td>1,200,000 Thixotropic</td>
<td>1.10</td>
<td>4,351 (306)</td>
<td>-50 to 150 (-58 to 302)</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>FS518 Flange Sealant</td>
<td>Aluminium</td>
<td>0.25</td>
<td>Red</td>
<td>900,000</td>
<td>1.10</td>
<td>4,351 (306)</td>
<td>-50 to 150 (-58 to 302)</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

**SealXpert® Anaerobic Retaining Compound**

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
</table>
| RC603 Retaining Compound | • High strength, low viscosity  
• Good oil tolerance, can be used on surfaces with slight oil contamination | • Seals and secures cylindrical assemblies under 0.005” (0.13 mm) diometrical clearance
• Designed for transition and interference fit
• Used for slightly oily surface and inert surface |
| RC620 Retaining Compound | • Thixotropic viscosity  
• Self-curing high temperature resistant | • Designed to retain cylindrical fittings which can endure high temperatures 232 °C (450 °F)
• Generally applicable for parts whose working temperature is 150 °C (302 °F) to 230°C (446 °F) (intermittent and continuous)
• Used to bond and retain automobile air valve sleeve, injection molding machine core sleeve, valve bushing, cylinder liner, plunger pin in steam hammer; seal or lock thread |
| RC638 Retaining Compound | • Maximum high strength, high viscosity  
• Fixture in 5 minutes | • Used for retaining cylindrical assembly where fit clearance can approach 0.01” (0.26 mm) and where maximum strength at room temperature is required
• Lock bushings and sleeves into housings and on shafts
• Designed for transition and interference fit |
| RC648 Retaining Compound | • High strength, medium to low viscosity  
• Withstand high temperature to 175 °C (347 °F)  
• Fixture in 5 minutes | • Used for dynamic loading or periodic loading working conditions
• High temperature resistant, cures fast, retaining cylindrical assembly where fit clearance is less than 0.006” (0.15 mm)
• Designed for transition and interference fit |
| RC680 Retaining Compound | • High strength, medium viscosity  
• Enhances bonding strength | • Used for diametral clearance of less than 0.01” (0.25 mm) clearance fit or transition fit with the best fit clearance between 0.002” (0.05 mm) to 0.004” (0.10 mm)
• Replace press fit and prevent rust
• Used for slight rotating (worn) bearing, shaft sleeve etc., fittings, retain belt pulley, bushing, gear wheel, rotor, rebuild hole-shaft fitting parts and out-of-tolerance parts
• Designed for transition and interference fit |

**Package:**
- 50 ml/bottle
### Technical data:

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Typical Use</th>
<th>Max Gap Fill</th>
<th>Colour</th>
<th>Viscosity</th>
<th>Specific Gravity</th>
<th>Shear Strength</th>
<th>Temperature Range</th>
<th>Fixture</th>
<th>Full Cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>RC63 Retaining Compound</td>
<td>Slightly oil contaminated surface</td>
<td>0.13</td>
<td>Green</td>
<td>200</td>
<td>1.10</td>
<td>&gt; 2,901 (204)</td>
<td>-50 to 150</td>
<td>5-10</td>
<td>24</td>
</tr>
<tr>
<td>RC62 Retaining Compound</td>
<td>High temperatures 232 °C (450 °F)</td>
<td>0.30</td>
<td>Green</td>
<td>8,500</td>
<td>1.15</td>
<td>&gt; 2,901 (204)</td>
<td>-50 to 230 (-58 to 446)</td>
<td>30-100</td>
<td>24</td>
</tr>
<tr>
<td>RC638 Retaining Compound</td>
<td>Maximum strength</td>
<td>0.26</td>
<td>Green</td>
<td>2,500</td>
<td>1.09</td>
<td>&gt; 4,496 (316)</td>
<td>-50 to 150 (-58 to 302)</td>
<td>5-10</td>
<td>24</td>
</tr>
<tr>
<td>RC648 Retaining Compound</td>
<td>Withstands high temperature up to 175 °C (347 °F)</td>
<td>0.15</td>
<td>Green</td>
<td>500</td>
<td>1.25</td>
<td>&gt; 2,611 (184)</td>
<td>-50 to 175 (-58 to 347)</td>
<td>5-15</td>
<td>24</td>
</tr>
<tr>
<td>RC680 Retaining Compound</td>
<td>For clearance and transition fit</td>
<td>0.25</td>
<td>Green</td>
<td>1,250</td>
<td>1.12</td>
<td>&gt; 2,756 (194)</td>
<td>-50 to 150 (-58 to 302)</td>
<td>10-15</td>
<td>24</td>
</tr>
</tbody>
</table>

---

**SealXpert® Cyanoacrylate Adhesive**

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
</table>
| CA401 Cyanoacrylate Adhesive | • General purpose  
• Medium viscosity  
• Does not contain solvent, but highly polymerize with moisture in the air for a fast cure and high bond strength | • Used for bonding inert materials which are difficult to bond  
• Ideal for coarse, porous and acidic surfaces such as wood, rubber, leather and paperboard bonding |
| CA480 Cyanoacrylate Adhesive | • Medium viscosity  
• Impact resistant instant curing adhesive  
• Contains no solvent, polymerizes highly with moisture in air and cures fast with high strength  
• Good resistance in humid environments | • Used for difficult-to-bond material and impact resistant bonding, such as plastic, rubber, leather, wood and metal etc.  
• For applications where shock resistance is required or shock or peel loads are present  
• Suitable application includes precise electric industry, automobile industry, precise machinery industry, household electric appliance industry, wood industry, artware industry, toy industry, marine, construction industry and audio equipment etc. |
| CA495 Cyanoacrylate Adhesive | • General purpose  
• Medium to low viscosity  
• Does not contain solvent, but highly polymerize with moisture in the air for a fast cure and high bond strength | • Ideal for filling gaps 0.004” (0.1 mm)  
• Used for bonding various materials such as rubber and plastic |
| CA496 Cyanoacrylate Adhesive | • General purpose  
• Medium viscosity  
• Does not contain solvent, but highly polymerize with moisture in the air for a fast cure and high bond strength  
• Fast cure  
• Suitable for metal bonding | • Used for metal bonding  
• Applicable to electronics, automobile, watercraft, precision machine and wood etc. |

**Package:**
- 20 gram/bottle
Technical data:

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Typical Use</th>
<th>Max Gap Fill</th>
<th>Uncured</th>
<th>Cured</th>
<th>Curing Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA401</td>
<td>General purpose, porous and acidic surface</td>
<td>0.10</td>
<td>Transparent</td>
<td>110</td>
<td>1.10</td>
</tr>
<tr>
<td>CA480</td>
<td>Resistant to impact and vibration, toughness</td>
<td>0.10</td>
<td>Black</td>
<td>250</td>
<td>1.10</td>
</tr>
<tr>
<td>CA495</td>
<td>General purpose, plastic, rubber</td>
<td>0.10</td>
<td>Transparent</td>
<td>45</td>
<td>1.05</td>
</tr>
<tr>
<td>CA496</td>
<td>General purpose, metal parts</td>
<td>0.10</td>
<td>Transparent</td>
<td>120</td>
<td>1.10</td>
</tr>
</tbody>
</table>

SealXpert® SP40 Multipurpose Lubricant

Features:
- Protects metal surface and loosens rusted fittings
- Infiltrates the areas of rust in a short time
- Lubricate moving parts and inhibits corrosion
- Eliminates the noise caused by rubbing between spare parts or movable fittings
- Remove tar and grease
- Drive out moisture

Application:
- Can apply on automotive, industrial machinery and tools for removal of oil contaminant provide lubrication, anti-rust, corrosion prevention, and dehumidification
- Can apply on household and office appliance for the removal of loose rust and rust knot, provide lubrication and reduce noise with superior effect

Technical data:
- Appearance: Aerosol
- Colour: Brown transparent
- Odor: Fragrance
- Density: 0.68 ± 0.01 g/cm³
- Water solubility: Insoluble in water

Package:
- 450 ml/can
SealXpert® Anti-Slip Floor Coating

Features:
- Two-component Epoxy Resin Coating designed for application in areas of heavy pedestrian traffic or light rolling traffic under typical dry service temperatures of -29°C to 60°C (-20°F to 140°F)
- Easy and fast to apply by paint brush or roller
- Reduces accidents (slips and falls) in the workplace
- Fire retardant in the cured state
- Resists gasoline, oil, acids, alkalis and aliphatic solvents
- Available in yellow, grey or green

Technical data:
- Volume of solids: 62 %
- Mix ratio - by weight: 7.5:1
- - by volume: 4.4:1
- Coverage - Roller: 4.6 m² per 3.78 l (50 ft²/gal)
- - Trowel: 3.7 m² per 3.78 l (40 ft²/gal)
- Dry time at 21°C: 12 hours

Application:
- Typical applications include a non-slip finish for concrete and steel ramps, walkways, locker rooms, loading docks, marine applications, machine rooms assembly areas and stairs

Package:
- 3.8 litres/set

SealXpert® Molybdenum Disulfide Products

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SealXpert® Moly Z Powder</td>
<td>• Excellent lubricating properties</td>
<td>• Used for applications that are exposed to extreme environments, slow speeds, and heavy loads</td>
</tr>
<tr>
<td></td>
<td>• Reduction of friction and wear</td>
<td>• Used on self-lubricating plastics, metallic surfaces, metal working compounds, brake linings, press fittings, and as a run-in aid</td>
</tr>
<tr>
<td></td>
<td>• Resistant to oxidation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Extreme pressure resistance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Wide service temperature range</td>
<td></td>
</tr>
<tr>
<td>SealXpert® Moly Micro Powder</td>
<td>• Excellent lubricating properties</td>
<td>• Lubricate metal surfaces of all kinds in many difficult and extreme environments</td>
</tr>
<tr>
<td></td>
<td>• Reduction of friction and wear</td>
<td>• Metal/metal pairings at extreme loads and slow speeds</td>
</tr>
<tr>
<td></td>
<td>• Resistant to oxidation</td>
<td>• Metal/plastic pairings at low loads and low to medium speeds</td>
</tr>
<tr>
<td></td>
<td>• Extreme pressure resistance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Wide service temperature range</td>
<td></td>
</tr>
<tr>
<td>SealXpert® Moly G-Rapid Spray</td>
<td>• Designed to be a running-in lubricant</td>
<td>• Seizure prevention during machine assembly such as press or heat-fitting</td>
</tr>
<tr>
<td></td>
<td>• Does not require burnishing</td>
<td>• Seizure prevention and run-in protection for motor axles, splines, and cams</td>
</tr>
<tr>
<td></td>
<td>• Provides a lower coefficient of friction than most other MoS2 parties</td>
<td>• Protects against overheating of power screws and packing seals</td>
</tr>
<tr>
<td></td>
<td>• Features a solvent that quickly evaporates and allows the sprayed part to be used within seconds</td>
<td>• Lubrication during metal working such as thread cutting, grinding and casting</td>
</tr>
<tr>
<td></td>
<td>• Has a service temperature range of -35°C to 399°C (-31°F to 750°F)</td>
<td>• Pre-treatment of surfaces before grease or oil lubrication</td>
</tr>
<tr>
<td>SealXpert® Moly 1000 Anti-Seize Compound</td>
<td>• Can be used over a wide range of temperature (-30°C/-22°F to 650°C/1120°F)</td>
<td>• Fretting corrosion prevention in the fitting area of machine parts</td>
</tr>
<tr>
<td></td>
<td>• High load-carrying capacity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Enables non-destructive dismantling, even after long use at high temperatures</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Coefficient of friction unchanged in the area of oiled bolts, even after several bolt re-tightening and loosening processes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Good corrosion protection</td>
<td></td>
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</tr>
</tbody>
</table>
## SealXpert® Molybdenum Disulfide Products

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
<th>Application</th>
</tr>
</thead>
</table>
| SealXpert® Copper Anti-Seize Compound| • Highly effective oxidation inhibitors  
• Resistant to corrosion and vibration  
• Resistant to contraction and expansion  
• Ensures rapid and easy assembly of threaded parts  
• Prevents seize and galling  
• Reduces wear in areas of high friction  
• Withstands temperature from -40°C to 1100°C (-35°F to 2000°F) | • Ensures quick and trouble-free dismantling for routine maintenance even after prolonged exposure to high temperature areas up to 1100°C (2000°F) or in corrosive conditions such as coal mining or marine environments  
• Extensively used on tool joints, drill collars, precision threads, large and small diameter pipelines and valves |
| SealXpert® Moly M77 Paste             | • Paste lubrication up to 230°C (446°F), dry lubrication up to 400°C (662°F)  
• Good water resistance  
• Good volatilization properties  
• Compatible with many types of elastomers and plastics [test for compatibility] | • Suitable for lubrication points with low to moderate loads and low speeds which are subjected to water and extreme temperatures  
• Suitable for lubricating parts consisting of materials that are not resistant to mineral oils  
• Used successfully on metal/metal combinations with frictional and contact surfaces, brake anchor plates and the brake pistons of disc brakes |
| SealXpert® Moly G-N Paste             | • High pressure-absorption capacity  
• Low coefficient of friction  
• Prevents frictional corrosion and scoring  
• Protection from stick-slip  
• Good anti-corrosion properties  
• Reduces frictional corrosion  
• Simplifies dismantling processes  
• High surface covering capacity | • Press-fit production of all types of machine elements, as a running-in lubricant for new machines and gearboxes  
• Permanent lubrication of machine elements that are moved only rarely or slightly and also for drilling, sawing and thread cutting  
• Used successfully for lubricating threaded spindles, splined shafts, toothed gears, warm and transmission gears, screws, valves, pumps, machine tool guides and also for the tightening and fitting of roller bearings, washers, wheels, flanges and bolts |

### Package:
- 500 gram/can (Moly Micro Powder / Copper Anti-Seize Compound / Moly M77 Paste / Moly G-N Paste)
- 1 kg/can (Moly Z Powder / Moly 1000 Anti-Seize Compound)
- 500 ml/can (Moly G-Rapid Spray)

### Technical data:

#### SealXpert® Moly Z Powder
- Colour: Blackish
- Purity (MoS2 content): 98 %
- Particle size: 3 – 4 μm  
  [-185 °C to 450 °C]  
  [-301 °F to 842 °F]
- Service temperature range: Up to 1100 °C  
  (Up to 2012 °F)
- Service temperature range (in vacuum): Up to 1100 °C  
  (Up to 2012 °F)
- Theoretical density: 4.5 g/cm³
- Bulk density: 1.3 g/cm³
- Water/moisture content: 0.02 %
- Coefficient of friction: 0.06 μ

#### SealXpert® Moly Micro Powder
- Colour: Blackish
- Purity (MoS2 content): 98 %
- Particle size: 0.65 to 0.80 μm  
  [-185 °C to 450 °C]  
  [-301 °F to 842 °F]
- Service temperature range: Up to 1100 °C  
  (Up to 2012 °F)
- Service temperature range (in vacuum): Up to 1100 °C  
  (Up to 2012 °F)
- Theoretical density: 4.5 g/cm³
- Bulk density: 0.5 g/cm³
- Water/moisture content: 0.05 %
- Coefficient of friction: 0.06 μ

#### SealXpert® Moly G-Rapid Spray
- Colour: Grayish-black
- Service temperature: -35 °C to 399 °C (Solid)  
  [-31 °F to 750 °F]
- Density: 1.70 g/cm³
- Coefficient of friction: 0.05
- Copper corrosion 100 °C/24 hours: 1a

#### SealXpert® Moly 1000 Anti-Seize Compound
- Colour: Brown
- Unworked penetration: 280-310 mm/10
- Density at 20 °C: 1.26 g/cm³
- Service temperature: -30 °C to 650 °C  
  [-22 °F to 1202 °F]
- Coefficient of friction: 0.13
## Technical data:

### SealXpert® Copper Anti-Seize Compound

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Copper</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-40 ºC to 1100 ºC (-40 °F to 2000 °F)</td>
</tr>
<tr>
<td>Solidifying temperature</td>
<td>-18 ºC (0 ºF)</td>
</tr>
<tr>
<td>Unworked penetration at 25 ºC</td>
<td>310–340 mm/10</td>
</tr>
<tr>
<td>Contained fluid</td>
<td>mineral oil</td>
</tr>
<tr>
<td>Drop point</td>
<td>non-melt</td>
</tr>
<tr>
<td>Closed cup flashpoint</td>
<td>243 ºC (470 ºF)</td>
</tr>
<tr>
<td>K factor</td>
<td>0.16</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>insoluble</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.13</td>
</tr>
</tbody>
</table>

### SealXpert® Moly G-N Paste

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Black</td>
</tr>
<tr>
<td>Unworked penetration</td>
<td>280–310 mm/10</td>
</tr>
<tr>
<td>Density at 20 ºC</td>
<td>1.35 g/cm³</td>
</tr>
<tr>
<td>Service temperature</td>
<td>-25 ºC to 450 ºC (-13 ºF to 842 ºF)</td>
</tr>
<tr>
<td>Coefficient of friction</td>
<td>0.08 μ</td>
</tr>
<tr>
<td>Water resistance, static, evaluation</td>
<td>2 - 90</td>
</tr>
</tbody>
</table>

### SealXpert® Moly M77 Paste

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Black-grey</td>
</tr>
<tr>
<td>Unworked penetration</td>
<td>280–330 mm/10</td>
</tr>
<tr>
<td>Density at 20 ºC</td>
<td>1.95 g/cm³</td>
</tr>
<tr>
<td>Service temperature Paste-like</td>
<td>-45 ºC to 230 ºC (-49 ºF to 446 ºF)</td>
</tr>
<tr>
<td>Dry</td>
<td>Up to 450 ºC</td>
</tr>
<tr>
<td></td>
<td>(Up to 842 ºF)</td>
</tr>
</tbody>
</table>
SealXpert® FlameCease FC100 Fire Protection Coating

**Features:**
- Low installation cost
- High Durability Fire Tested under British Standard 476 Part 6, 7 & 20
- Contains no halogenated flame retardant
- Excellent lap shear, tensile and compressive strengths
- More specific to address complex issues with different resin types

**Technical data:**
- Gel time: 15 min
- Gel to peak exotherm: 18 min
- Total time to peak exotherm: 28 min
- Peak exotherm temperature: 174 °C (345 °F)
- Barcol hardness: 49
- Tensile strength: 6,672 psi (469 kg/cm²)
- Tensile modulus: 73 x 10⁹ pa
- Heat distortion temperature: 117 °C (243 °F)@ 264 psi (19 kg/cm²)
- Adhesive strength: 1,958 psi (138 kg/cm²)
- Tensile elongation: 2.8%
- Flexural strength: 2,393 psi (1,683 kg/cm²)
- Flexural modulus: 6.8 x 10⁹ pa

**Fire Resistance**

<table>
<thead>
<tr>
<th>Fire Resistance</th>
<th>Recommended Coating Thickness (I-Beam)</th>
<th>Product Usage Per Coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 hour fire protection</td>
<td>1.0 mm thk / 2 coatings</td>
<td>800 grams / m²</td>
</tr>
<tr>
<td>2 hours fire protection</td>
<td>1.5 mm thk / 3 coatings</td>
<td>800 grams / m²</td>
</tr>
<tr>
<td>3 hours fire protection</td>
<td>3.5 mm thk / 7 coatings</td>
<td>800 grams / m²</td>
</tr>
</tbody>
</table>

**Application:**
- Ideal for use in:
  - Petrochemical plants
  - Chemical processing plants
  - Gas processing facilities
  - Refinery facilities
  - Pipe rack beams and columns
  - Vessel skirts and supports
  - Tank saddles
  - Silo top
  - Automotive/aircraft parts
- Suitable for both interior and exterior applications
- Suitable for onsite and offsite application
- Apply by using brush or paint roller
- Can be used as primer, fire protection coat and top coat, 3-in-1
- May apply any epoxy base paint coating after FC100 base on personal preferences for aesthetic purpose

**Package:**
- FC100 Resin (20kg)
- FC100 Hardener (1kg)

**SealXpert® FlameCease FC100 Fire Protection Coating Application Procedure:**

1. Mix Component A (FlameCease Resin) and Component B (FlameCease Activator)
2. Stir until well mixed
3. Apply by using brush or paint roller