

FORM IN PLACE GASKETS

AD-120-0410

POLYMERIC SYSTEMS SILI-THANE® 803 SEALANT



Modus Advanced, Inc.'s Form-in-Place AD120-0410 is a one-component, polyether-based sealant that cures to a medium-modulus rubber. In addition to its many applications, this material will bond dissimilar materials and seal joints with varying coefficients of expansion. It can also be used with moving joints and can accommodate joint movement of $\pm 25\%$ of joint width. It is a low odor, low VOC, solvent- and isocyanate-free compound suitable for both exterior and interior applications. It exhibits zero shrinkage, and it will not crack, craze or chalk once cured. Also, it will not foam or bubble in moist or humid curing conditions. This material will adhere to metals, mortar, granite, slate, glass, ceramic, fiberglass, ABS, PVC, Nylon 66, polyester, lauan wood and plywood.

TYPICAL PROPERTIES (for information only- not for specification purposes)

| Property | Results | Test Method |
|---|----------------------------|-------------------------|
| Uncured Properties | | |
| Skin-over time | 30 minutes | ASTM C679 |
| Cure time, 1/8 th bead | <24 hours | PSI S204 |
| Sag | <0.1 inches | ASTM C2202 |
| VOC Content | 18 gms/L (0.15 lbs./gal) | - |
| Specific Gravity | 1.7 | - |
| Pounds/gallon | 14 | - |
| Extrusion rate @ 40 psi, 1/8" orifice | 70 gm/min. | TT-S-000230C |
| Cured Properties - 7 days at 70°F (21°C) & 50% RH | | |
| Hardness, Shore A | 35 | ASTM C661 |
| Tensile at break | 180 psi | ASTM D412 |
| Tensile @ 100% elongation | 80 psi | ASTM D412 |
| Elongation at break | 450% | ASTM D412 |
| Service Temperature | -40 to 195°F (-40 to 90°C) | - |
| Peel to unprimed concrete, aluminum & glass | 15 pli, 100% coh | ASTM C794 |
| Lap shear on aluminum On steel | 150 coh 150 coh | ASTM C794 ASTM 02002 |
| Cured Construction Properties | | |
| Durability (bond & cohesion) joint movement on glass, aluminum & concrete | $\pm 25\%$ | ASTM C920 |
| Sunshine weatherometer, 2000 hrs. | No appearance change. | |

FEATURES AND BENEFITS

- One low-odor component
- No shrinkage
- Flexible over a wide temperature range
- Exceptional adhesion to many types of substrates, both wet and dry
- Will not shrink, crack, craze or chalk
- No foaming or bubbling in moist or humid curing conditions
- 20+ year life

APPLICATIONS

- Bonding dissimilar materials
- Sealing joints, including moving joints

METHOD OF APPLICATION:

- Automated dispensing equipment

ADDITIONAL PROPERTIES

- Color: White (also available in gray, limestone, and black)

Not recommended for the following applications:

- Sealing expansion joints less than 1/4" wide or deep
- Water immersion on porous substrates
- Immersion in organic solvents
- Use on non-primed glass under strong UV
- Painting in uncured state

CUSTOMERS ALSO SEARCHED:

| | | |
|-----------------------|----------------------------|--------------------------------|
| form in place gasket | dispensed gaskets | conductive silicone |
| liquid gaskets | dispensed gasket | emi silicone |
| liquid gasket | form-in-place | emi shielding gasket |
| gasket tack | Dispensed gasket | formed gasket |
| form in place | conductive gasket | electrically conductive gasket |
| conductive material | liquid gasket | silver silicone |
| form in place gaskets | paste gasket | nickel graphite silicone |
| | emi gasket | |
| | conductive silicone gasket | |

MODUS ADVANCED TAKES YOU FROM IDEA TO IGNITION



IDEA



ENGINEERING



SOLUTION



IGNITION



PICK A MATERIAL

TURN-KEY DISPENSED SOLUTIONS

We are Modus! With multiple locations in North America and China, Modus Advanced, Inc. is a diversified custom manufacturer which converts EMI Shielding, Environmental Gasket Materials, Microwave Absorbers, Acoustic Materials, Thermal Interface Materials and other high performance materials into finished parts. Modus utilizes its 40 years as an established provider of high quality, reliable products to create precisely what customers specify. Innovative processes; custom fabrication utilizing performance materials; an on time delivery record of more than 99% means Modus is well positioned to help your company succeed.

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