

FORM IN PLACE GASKETS

AD-120-0412

POLYMERIC SYSTEMS SILI-THANE® 803 SEALANT



Modus Advanced, Inc.'s Form-in-Place AD120-0412 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: Black (also available in gray, limestone, and white)

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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