

Sealex®

シ-ルツクス

ZOTA

M150

HYBRID POLYMER

LOW VOC • NON-SHRINK • NON-SWELL • NON-STAIN • FAST CURE



- LOW VOC
- NON-SHRINK
- NON-SWELL
- NON-STAIN
- FAST CURE

**NON BUBBLE &
CAN USE ON A
WET SURFACE**



SEALEX ZOTA M150 HYBRID POLYMER

The Zota M150 by Sealex is a one-part elastomeric hybrid technology sealant that combines the advantages of silicone and polyurethane but with better performing characteristics. Unlike polyurethane the Zota M150 Hybrid Polymer does not contain any solvent nor isocyanates making the Zota M150 non-shrink, non-bobble and low VOC and high UV resistance. Zota M150 is excellent for outdoor application. Unlike silicone, Zota M150 is paintable.

- Low VOC - Comply to Green Building requirement
- For both external and internal application
- Isocyanate free and silicone free
- Watertight and weatherproof
- Solvent free and odorless
- Minimal dirt pick up
- Stain free
- Paintable



PSB Singapore

Features

Excellent adhesion to most substrates

Isocyanate and solvent free

Low VOC

Odorless (Safe to human)

Excellent weather & UV resistance

Can be use on wet surface

Non-gassing, building or foaming

Quick cure

Stain - free (Non-migration)

Minimal dirt pickup (Silicone free)

Excellent paintability

One-part system and primerless

High strength

Benefits

Versatile and flexible in applications.

Safe to users and home owner especially interior applications
Green & environmentally friendly.

Less than 2%. comply to Green Building requirement

Work in comfort. Live in comfort.

Show no cracking, splitting or adhesion failure after long term test.
10 years service life expectancy.

Increase productivity

Provide a strong solid long life seal

Increase productivity. Cleaner work space.

Excellent stain resistant when applied to porous substrates.

Non-bleeding throughout the life span of the product result in clean joint.

Paintable with most paints.

Versatile and easy to apply and adhere even to wet surfaces.

High tensile and shear strength provides a strong joint.



Applications

- Concrete joints
- General industrial applications
- General sealing and waterproofing
- Window and Door Construction
- HVAC

Certification & Compliance

- ASTM C920 - 2008 Certified
- LEED 2009 EQ c4.1 VOC Compliance
- SCAQMD rule 1168 VOC Compliance

Conformance

- ZOTA M150 complys to ASTM C920 Type S, Grade NS, Class 25
- Singapore PSB for HDB

Colors



Standard colors are white, light grey and black. Other colors available upon request.

Technical Specification

Curing Time	3 mm. depth per day
Skin Time	15-25 min
Odor	Very Low Odor
Specific Gravity	1.58
Elongation	300% - 400%
Working Temperature	5°C - 45°C
Tensile Strength	1.6 MPa
Movement Capability	±25%
Hardness	25 - 40 Shore A

LEED 2009 (Section 4.1)

Analytical results

	Solid content, % mass	Water content, % mass	Exempt compounds, % mass	VOC less water less exempt compounds, g/l	VOC limit g/l
ZOTA M150 HYBRID POLYMER	99.7	0**	0***	4.7	70*

* VOC limit for "Multipurpose Construction Adhesives"

ZOTA M150 HYBRID POLYMER

Common Bonding Substrates

- Aluminum
- Ceramics
- Painted Surfaces
- Glass
- Metals
- Most Woods
- Most Plastics
- Porcelain
- Granite
- Marble
- PVC
- Porous Surfaces
(Concrete, Brick, Etc.)



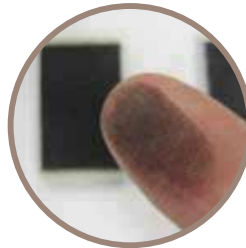
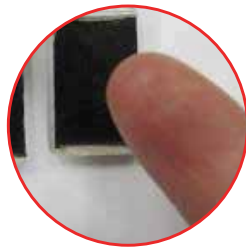
Features & Benefits

WEATHERABILITY

No degradation and change in colour after 2000 hrs exposure to UV, PU shows signs of degradation and colour change after only 1000 hrs exposure.

ZOTA M150

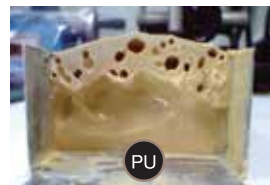
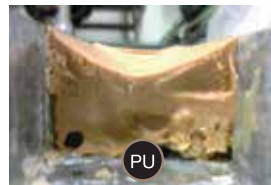
PU



NO BUBBLE, NO FOAM, NO HOLLOW, NON SHRINKAGE



ZOTA M150 when cured remains flexible but provide a solid seal and excellent adhesion without any bubble, hollow and shrinkage compared to all PU which naturally produces bubbles and shrinks.



PAINTABLE

ZOTA M150 offers excellent paintability for all paints and colours compared to other sealants

WATER BASE ACRYLIC PAINT

SEALANT	A	B
ZOTA M150		
Silicone		
Polyurethane		

Size of Packaging



600 ml. (Sausage)



Aluminium Sealant
Sausage Gun

Comparison Table

Properties	Sealex® ZOTA M150	Polyurethane (PU)	Silicone	Comparison and Results
Non-hazardous, safe to human and environment	10	5	9	Unlike PU, ZOTA M150 does not contain any isocyanate and solvent which are hazardous to health and environment.
Non Dirt Pickup	10	8	5	ZOTA M150 does not bleed throughout its life span and so does not attract dirt
Stain Resistance	8	7	5	Due to its non-bleed property, ZOTA M150 does not stain the substrates especially marble, granite and other porous material.
Weatherability	9	6	10	ZOTA M150 displays excellent weather resistance.
Non-bubbling and foaming	10	6	10	This provides a very strong, long life and solid seal and adhesion.
Adhesion Versatility	10	5	8	ZOTA M150 can be used with most substrates and yet displays the strongest adhesion.
Paintability with water-based paints	10	8	0	When painted it is able to blend well with its environment.
Fast Curing	10	7	10	Increases productivity and also prevents messy working environment when accidentally touched.
Storage Stability	7	7	9	When stored properly and protected from moisture, ZOTA M150 has an excellent shelf-life.

Test Report No. 7191215308-MEC19-ED dated 4 Sep 2019



TEST RESULTS:

Test	'Sealex/Zota M150 Modified Polymer'	ASTM C920 : 2014a Standard Specification For Elastomeric Joint Sealants
1. Staining And Colour Change	No staining No colour change	The sealant shall not cause any visible stain on the top surface of a white cement mortar base
2. Extrudability	10.0 ml/min	Type S (single component), grade NS (non-sag or gunnable sealant) shall have an extrusion rate of not less than 10 ml/min
3. Rheological (Flow) Properties	Vertical displacement: 0 mm sag Horizontal displacement: No deformation	Grade NS (non-sag) or gunnable sealant shall have flow characteristics such that it does not sag more than 4.8 mm (³ / ₁₆ in.) in vertical displacement. Also the sealant shall show no deformation in horizontal displacement (refer to Types II and IV in the tests)
4. Indentation Hardness	test piece 1, average : 22.9 test piece 2, average : 22.6 average of 2 test pieces : 22.8	Use T ₁ (traffic) sealant shall have a hardness reading, after being properly cured, of not less than 25 Use T ₂ (traffic) sealant shall have a hardness reading, after being properly cured, of less than 25 Use NT (non-traffic) sealant shall have a hardness reading, after being properly cured, of less than 60
5. Tack-Free Time	No transfer of test specimens to the polyethylene film	There shall be no transfer of the sealant to the polyethylene film when tested at 72 hours
6. Adhesion & Cohesion Under Cyclic Movement, Class 25	No loss in bond	The total loss in bond and cohesion areas among the three specimens tested for each surface shall be no more than 9 cm ² (1 1/2 in. ²) with standard mortar, glass, and aluminium or any other specified substrates
7. Effects Of Heat Ageing On Weight Loss, Cracking And Chalking, average	1.0% No cracking and chalking	The sealant shall not lose more than >7% of its original weight or show any cracking and chalking
8. Effects Of Accelerated Weathering	No cracks after UV exposure and bend test	The sealant shall show no cracks greater than those shown in example #2 of Figure 1 in ASTM C793 after the specified UV exposure and shall show no cracks greater than those shown in example #2 of Figure 2 in ASTM C793 after exposure at cold temperature and the bend test (refer to Photo 2)
9. Adhesion-In-Peel, average	32.6 N (7.3 lbf) cohesive failure within the sealant and no adhesive bond loss between sealant and substrate for each test piece	The peel strength for each individual test shall not be less than 22.2 N (5 lbf) when tested with standard mortar, glass, and aluminium or any other specified substrate. In addition, the sealant shall show no more than 25% adhesive bond loss for each individual test
10. Material Identification/ Verification By FTIR	Ether-based material (refer to Figure 1)	-

LIMITED WARRANTY

The information contained in this document offered in good faith is believed to be accurate. However, as it is beyond our control on the conditions and methods of use of our products by our clients the information contained in this document should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end application.

Sealex warranties that all Sealex products meet the specifications herewith at the time of shipment. In the event of breach of such warranty Sealex is limited to refund of purchase price or replacement of any product shown to be other than as warranted.



PSB Singapore

GREEN STANDARDS

- * LEED 2009 for New Construction and Major Renovations: Low Emitting Materials (Section 4.1), SCAQMD rule 1168 (2005)
- * ASTM D2369 EPA Method 24 VOC content 46 g/l or 3.6%

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www.sealexchem.com

Distributed by

MF BUILDING & CONSTRUCTION PRODUCTS PTE. LTD.



39 Woodlands Close, #04-42 Mega @ Woodlands,
Singapore 737856
Tel : (65) 6877 0408 Fax : (65) 6877 0456
Email : sales@mfbcp.com.sg
www.mfbcp.com.sg

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