

**TECHNICAL DATA SHEET****SL-912 HYBRID LOW MODULUS POLYMER SEALANT****DESCRIPTIONS:**

**SILOCK SL-912 HYBRID LOW MODULUS POLYMER SEALANT** IS BASED UPON HYBRID SILYL MODIFIED POLYETHER TECHNOLOGY. IT IS A NEUTRAL, SINGLE COMPONENT, LOW MODULUS WITH HIGH MOVEMENT CAPABILITY JOINT SEALANT. IT HAS AN OUTSTANDING BOND STRENGTH AND PRIMERLESS ADHESION ON VARIOUS TYPES OF SUBSTRATES. IT CAN BE PAINTED WITH MOST TYPE OF PAINTS AND HAS SUPERIOR WEATHERABILITY IN ALL CLIMATES. IT WON'T FORM BUBBLES WITHIN SEALANT EVEN IN A HIGH TEMPERATURE AND HUMIDITY APPLICATIONS OR APPLY ON MOIST SURFACES. IT IS A HIGH PERFORMANCE FLEXIBLE ELASTIC SEALANT SUITABLE FOR ALL KIND OF APPLICATIONS AND CONDITIONS. SL-912 IS DESIGNED FOR USE ON PRESTIGE BUILDINGS. THIS SPECIALLY FORMULATED NON-BLEEDING SEALANT MAINLY FOR APPLICATION TO DIFFICULT SUBSTRATES ASSOCIATED WITH MODERN FACADE CONSTRUCTION. SL-912 IS A DURABLE, FLEXIBLE, NON-SAGGING SEALANT THAT OFFERS EXCELLENT PERFORMANCE IN MOVING JOINTS AND EXHIBITS TENACIOUS ADHESION.

**FEATURES:**

- ◆ CERTIFY TO ASTM C920-CLASS 50 & ASTM C1248
- ◆ JOINT MOVEMENT CAPABILITY UP TO +/- 50 %
- ◆ NO VISIBLE STAIN EVEN ON POROUS SUBSTRATE
- ◆ FREE OF ISOCYANATE, SOLVENT AND ACID
- ◆ EXCELLENT UV AND WEATHER RESISTANCE
- ◆ NO BUBBLE FORMATION WITHIN SEALANT
- ◆ DURABLE, FLEXIBLE, NON-SAGGING AND NON-BLEEDING PROPERTIES
- ◆ PRIMERLESS ADHESION ON MOST SURFACES
- ◆ SUITABLE FOR INDOOR AND OUTDOOR APPLICATION

**USES:**

- ◆ EXPANSION AND CONNECTION JOINTS IN THE BUILDING AND CONSTRUCTION INDUSTRY.
- ◆ SEALING OF JOINTS IN PREFABRICATED BUILDINGS OR CONCRETE PANELS.
- ◆ BONDING OR SEALING OF NATURAL STONES AND ALUMINIUM SUB-FRAMES.
- ◆ SEALING BETWEEN WINDOW AND DOOR FRAMES.
- ◆ MOVEMENT OR PERIMETER JOINTS AROUND BUILDINGS.

***WE RECOMMEND PRELIMINARY COMPATIBILITY TESTS PRIOR TO APPLICATION TO ACHIEVE DESIRABLE RESULTS***

**JOINT DESIGN:**

THE SPECIFIED SEALANT BEAD SIZE SHOULD BE CALCULATED TO COMPLY WITH THE COMPRESSION AND EXTENSION CAPABILITIES OF THE SEALANT IN RELATION TO THE ANTICIPATED JOINT WIDTH DUE TO EXPANSION AND CONTRACTION.

GENERALLY CALCULATION OF THE WIDTH OF SL-912 SEALANT BEAD SHOULD BE COMPUTED ON THE BASIS OF A MAXIMUM ± 50 % OF THE ORIGINAL JOINT WIDTH.

COMPRESSION AND EXTENSION CAPABILITY MINIMUM BEAD SIZE SHOULD NOT BE LESS THAN 3MM TO ACCOMMODATE MOVEMENT. DESIGN JOINT DEPTH OF WHICH RATIO WIDTH BECOMES 0.5 TO 1.

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SUITABLE JOINT DEPTH VS WIDTH:

6MM X 6MM  
8MM X 12MM  
10MM X 20MM

\* JOINT SIZE MINIMUM 3MM X 3MM

#### APPLICATIONS:

- ◆ SUBSTRATES MUST BE CLEAN, DRY AND FREE FROM GREASE. REMOVE ALL DIRT, OIL, GREASE, DETERGENTS AND LOOSE MATERIAL.
- ◆ CUT TIP OFF CARTRIDGE. CUT NOZZLE TO DESIRED SIZE AT 45° ANGLE. SCREW NOZZLE ONTO CARTRIDGE. INSERT CARTRIDGE INTO CAULKING GUN.
- ◆ PUSH SEALANT AHEAD FOR UNIFORM BEAD
- ◆ CLEAN OFF EXCESS SEALANT WITH M.E.K. OR TOLUENE BEFORE DRY.

#### CURING TIME:

SL-912 WILL SKIN FORMING IN APPROXIMATELY 30 MINUTES AND IT WILL CURE TO A DEPTH OF 10 MM IN 7 DAYS. LONGER CURING TIME MAY BE NECESSARY IN DRY AND LOW HUMIDITY AREA.

#### SPECIFICATIONS:

PROPERTIES	VALUE	METHOD
CURING SYSTEM	NEUTRAL	-
APPEARANCE	NON-SAGGING PASTE	VISUAL
SMELL	ODOURLESS	VISUAL
JOINT MOVEMENT CAPABILITY	+/- 50 %	ASTM C719
RHEOLOGICAL (FLOW) PROPERTIES		ASTM C639
I) VERTICAL DISPLACEMENT:	0 MM SAG	
II) HORIZONTAL DISPLACEMENT	NO DEFORMATION	
SPECIFIC GRAVITY	1.45 +/- 0.05	ASTM D1475
HARDNESS (SHORE A)	25 APPROX.	ASTM D2240
STAINING	NO STAINING	ASTM C510 & ASTM C1248
COLOUR CHANGE	NO COLOUR CHANGE	ASTM C510
ELONGATION AT BREAK	500% APPROX.	ISO 8339
TENSILE AT BREAK	0.50 MPA	ISO 8339
SECANT MODULUS @ 23°C AT 100% ELONGATION	0.30 MPA	ISO 8339
APPLICATION TEMP.	5°C TO 40°C	-
SERVICE TEMP.	-40°C TO 100°C	-
LAP SHEAR STRENGTH (AL. TO AL.)	0.6 MPA	ASTM C961
SHELF LIFE	9 MONTHS	-

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**STORAGE:**

MATERIAL SHOULD BE STORED IN A DRY AND COOL PLACE BETWEEN +5°C TO +30°C.

**CAUTION:**

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET OF THIS PRODUCT BEFORE HANDLING OR USING.

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