

**SAFETY DATA SHEET****SL-919 POWER LOCK INSTANT FIX MS POLYMER ADHESIVE****DESCRIPTIONS:**

**SILOCK SL-919 POWER LOCK INSTANT FIX MS POLYMER ADHESIVE** IS A HYBRID SILYL MODIFIED POLYETHER TECHNOLOGY BASED HIGH GRIP ONE COMPONENT STRONG ADHESIVE. POWER LOCK IS SUITABLE FOR DIRECT BONDING ON A WIDE RANGE OF HEAVY CONSTRUCTION MATERIALS WITHOUT SUPPORT AND ABLE TO HOLD UP TO 20 KG WEIGHT. THAT IS WHY SUPPORT OF THE ADHESIVE ASSEMBLY IS NOT NECESSARY IN GENERAL. POWER LOCK HAS HIGH PERFORMANCE MECHANICAL PROPERTIES AND COMBINES HIGH STIFFNESS WITH VERY HIGH BOND STRENGTH. POWER LOCK IS RECOMMENDED FOR USAGE IN SEALING AND BONDING IN BUILDING AND CONSTRUCTION INDUSTRY.

**FEATURES:**

- ◆ HYBRID SILYL MODIFIED POLYETHER TECHNOLOGY
- ◆ HIGH PERFORMANCE MECHANICAL PROPERTIES
- ◆ EXTREMELY FAST GRIP
- ◆ EXCELLENT COLOUR STABILITY & UV RESISTANCE
- ◆ TEMPERATURE RESISTANCE FROM -40°C TILL +100°C
- ◆ DOES NOT CONTAIN SOLVENT & ISOCYANATE
- ◆ LESS YELLOWING COMPARED TO POLYURETHANE (PU)
- ◆ NON-STAINING
- ◆ CAN BE APPLIED ON MOIST SURFACE & PRIMERLESS
- ◆ NO BUBBLE FORMATION WITHIN SEALANT (IN HIGH TEMPERATURE AND HUMIDITY APPLICATIONS)
- ◆ PAINTABLE & ENVIRONMENT FRIENDLY
- ◆ EXTERNAL & INTERNAL USE

**USES:**

- ◆ SEALING & BONDING IN THE BUILDING AND CONSTRUCTION INDUSTRY.
- ◆ GLUING OF MIRROR.
- ◆ ASSEMBLY OF GLASS, THRESHOLD, SKIRTING BOARD, STRIPES AND DECORATIVE WALL.
- ◆ ASSEMBLY OF PANEL, PORCELAIN MATERIALS AND GLAZES SURFACES.
- ◆ APPLICABLE FOR COATED METAL, STAINLESS STEEL, COPPER, ZINC, POLYESTER PANEL, HPL PANELS, POLYSTYRENE, POLYCARBONATE, UPVC, EPOXY, FINISHED WOOD AND ETC.

**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 POWER LOCK SEALANT BEAD SHOULD BE COMPUTED ON THE BASIS OF A MAXIMUM  $\pm 20\%$  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 FREE FROM GREASE. REMOVE ALL 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:**

POWER LOCK WILL SKIN FORMING IN APPROXIMATELY 5 MINUTES AND TACK FREE IN APPROXIMATELY 20 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
SPECIFIC GRAVITY	1.57 +/- 0.05	ASTM D 1475
HARDNESS (SHORE A)	50 APPROX.	ASTM D2240
ELONGATION AT BREAK	150% APPROX.	ISO 8339
TENSILE AT BREAK	1.00 MPA	ISO 8339
SECANT MODULUS @ 23°C AT 100% ELONGATION	0.80 MPA	ISO 8339
APPLICATION TEMP.	5°C TO 40°C	-
SERVICE TEMP.	-40°C TO 100°C	-
LAP SHEAR STRENGTH (AL. TO AL.)	1.10 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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