

## MS-601

### MS POLYMER ADHESIVE / SEALANT



#### DESCRIPTION:

**x'traseal** MS-601 IS BASED UPON **HYBRID SILYL MODIFIED POLYETHER TECHNOLOGY**. IT IS SUITABLE IN WIDE RANGE OF INDUSTRIAL APPLICATIONS AND IT HAS EXCELLENT PRIMERLESS ADHESION TO VARIOUS TYPES OF SUBSTRATES OF DISSIMILAR POROSITY, AND SURFACE TEXTURES. IT ALSO CAN BE OVER PAINTED WITH MOST OF THE TYPES OF PAINTS.

MS-601 IS A TECHNOLOGY THAT COMBINES THE UNIQUE FEATURES OF SILICONE AND POLYURETHANE SEALANTS. IT IS A MOISTURE CURE SYSTEM ADHESIVE SEALANT AND "NONE" BUBBLING WHEN APPLY IN HIGH HUMIDITY OR TO MOIST SUBSTRATES. IT IS NOT SUITABLE FOR STRUCTURAL GLAZING.

#### FEATURES:

- ◆ CONFORM TO ISO 11600, TYPE-F CLASS 20 HM
- ◆ CONFORM TO ATSM C920-CLASS 25
- ◆ HIGH MECHANICAL BONDING STRENGTH
- ◆ NON-STAINING AND CRACK RESISTANT
- ◆ FREE OF ISOCYANATE, SOLVENT AND ACID
- ◆ EXCELLENT UV RADIATION AND WEATHER RESISTANCE
- ◆ CAN BE APPLIED ON DAMP SURFACES
- ◆ ODOURLESS AND FAST CURING
- ◆ ENVIRONMENT FRIENDLY
- ◆ SUITABLE FOR INDOOR AND OUTDOOR USES

#### USES:

ELASTIC BONDING AND SEALING FOR:-

- |                |                 |
|----------------|-----------------|
| ◆ BUS          | ◆ FLOORING      |
| ◆ TRAIN        | ◆ METAL FRAMES  |
| ◆ TRAILERS     | ◆ NATURAL STONE |
| ◆ CARAVAN      | ◆ ALUMINIUM     |
| ◆ YACHT        | ◆ CONCRETE      |
| ◆ CONSTRUCTION | ◆ FIBRE GLASS   |

#### 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 MS-601 SEALANT BEAD SHOULD BE COMPUTED ON THE BASIS OF A MAXIMUM  $\pm 25\%$  OF THE ORIGINAL JOINT WIDTH.

A MINIMUM OF 6MM SUBSTRATE SEALANT BOND IS NECESSARY TO ENSURE ADEQUATE ADHESION AND ACCOMMODATE MOVEMENT. JOINT DEPTH SHOULD NOT LESS THAN 6MM AND NOT GREATER THAN 10MM. USE 2:1 WIDTH TO DEPTH RATIO UP TO 20MM IN WIDTH. BACKER MATERIAL SHOULD BE INSTALLED TO PREVENT 3 SIDE ADHESION AND TO CONTROL SEALANT DEPTH.

SUITABLE JOINT DEPTH VS WIDTH:

- 6MM X 6MM
- 6MM X 12MM
- 10MM X 20MM

#### APPLICATION:

- 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
- TOOL AS REQUIRED TO PROPERLY FILL JOINT.
- CLEAN OFF EXCESS SEALANT WITH M.E.K. OR TOLUENE BEFORE DRY.

#### CURING TIME:

MS-601 WILL SKIN FORMING IN APPROXIMATELY 15 MINUTES AND IT WILL CURE TO A DEPTH OF 11.5 MM IN 7 DAYS. LONGER CURING TIME MAY BE NECESSARY IN DRY AND LOW HUMIDITY AREA.

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



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**SPECIFICATION:**

PROPERTIES	VALUE	METHOD
CURING SYSTEM	NEUTRAL	-
APPEARANCE	NON-SAGGING PASTE	VISUAL
SMELL	ODOURLESS	VISUAL
SLUMP / FLOW (VERTICAL AND HORIZONTAL @ 5°C AND 50°C)	0 (NO FAILURE)	ISO 7390
TENSILE STRENGTH AT MAINTAINED EXTENSION	NO FAILURE	ISO 8340
SPECIFIC GRAVITY	1.43 +/- 0.05	ASTM D 1475
HARDNESS (SHORE A)	32 APPROX.	ASTM D2240
STAINING AND COLOUR CHANGE	NO STAINING AND NO COLOUR CHANGE	ASTM C510
ELONGATION AT BREAK	1000 % APPROX.	ASTM D412
TENSILE AT BREAK	1.40 MPA	ASTM D412
SECANT MODULUS @ 23°C AT 100% ELONGATION	0.40 MPA	ASTM D412
APPLICATION TEMP.	5°C TO 40°C	-
SERVICE TEMP.	-40°C TO 100°C	-
LAP SHEAR STRENGTH (AL. TO AL.)	1.06 MPA	ASTM C961
SHELF LIFE	9 MONTHS	-

**CAUTION:**

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

*This information is provided in good faith and is believed accurate based on a review of current composition and information supplied by vendors. No warranty is expressed or implied. Liability is expressly disclaimed.*

**STORAGE:**

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

