



MS-603

MS POLYMER ADHESIVE / SEALANT



DESCRIPTION:

x'traseal® MS-603 IS BASED UPON **HYBRID SILYL MODIFIED POLYETHER TECHNOLOGY**. IT IS AN ODORLESS, ONE PART ADHESIVE SEALANT SUITABLE FOR ALL KIND OF INDUSTRIAL APPLICATIONS EVEN IN ADVERSE CONDITIONS. IT HAS HIGH BOND STRENGTH AND PRIMERLESS ADHESION ON MOST TYPE OF SUBSTRATES OR MOIST SURFACES. IT CAN BE PAINTED WITH MOST KIND OF PAINTS AND HAS SUPERIOR WEATHERABILITY IN ALL CLIMATES. IT HAS A WIDE TEMPERATURE RANGE AND WILL NOT FORM BUBBLE WITHIN SEALANT EVEN IN A HIGH HUMIDITY CONDITION. IT IS AN IDEAL PRODUCT FOR ALL IN ONE INDOOR AND OUTDOOR BONDING AND SEALING PURPOSES.

FEATURES

- ◆ CONFORM TO ASTM C920 – CLASS 25
- ◆ GOOD MECHANICAL STRENGTH
- ◆ NO VISIBLE STAIN EVEN ON POROUS SUBSTRATE
- ◆ EXCELLENT UV RADIATION AND WEATHER RESISTANCE
- ◆ NON-BLEEDING AND CRACK RESISTANT
- ◆ PERMANENTLY FLEXIBLE & NON-SHRINKAGE
- ◆ FREE OF ISOCYANATE, SOLVENT, ACID AND SILICONE OIL
- ◆ NO BUBBLE FORMATION WITHIN SEALANT
- ◆ PRIMERLESS ADHESION ON MOST SUBSTRATES
- ◆ CAN BE APPLIED ON DAMP SURFACE
- ◆ FUNGUS IS NOT EASILY GROW ON SEALANT

USES:

MS-603 IS SPECIALLY DEVELOPED AS A UNIVERSAL SEALANT FOR SEALING BUILDING CONNECTION AND EXPANSION JOINT ON MOST BUILDING MATERIALS SUCH AS CONCRETE, BRICKWORK, ALUMINIUM, STAINLESS / MILD OR GALVANISED STEEL, DOOR OR METAL FRAMES, AND CERAMICS. IT'S ALSO SUITABLE FOR SEALING AND BONDING IN AUTOMOTIVE INDUSTRY, COLD STORAGE & CLEAN ROOM.

DUE TO A LARGE VARIETY OF DIFFERENT COATINGS AND SUBSTRATES, 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.

MS-603 HAS A MOVEMENT ACCOMODATION FACTOR (MAF) OF 25%. THE THEORETICAL MINIMUM JOINT WIDTH MAY BE CALCULATED

$$W = \frac{M}{MAF/100} + M$$

M = EXPECTED MAXIMUM WORKING MOVEMENT OF JOINT

MAF = MOVEMENT ACCOMODATION FACTOR OF SEALANT





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A MINIMUM OF 6MM SUBSTRATE SEALANT BOND IS NECESSARY TO ENSURE ADEQUATE ADHESION AND ACCOMMODATE MOVEMENT. JOINT DEPTH SHOULD NOT BE 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:

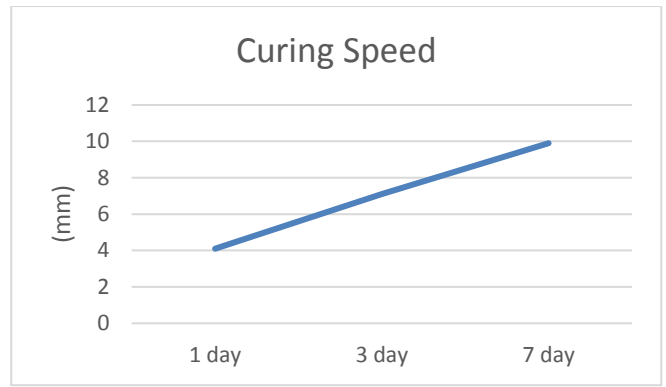
- 6MM X 6MM
- 6MM X 12MM
- 10MM X 20MM

APPLICATION:

- SUBSTRATES MUST BE CLEAN, DRY AND FREE FROM GREASE. REMOVE ALL DIRT, OIL, GREASE, DETERGENTS AND LOOSE MATERIAL.
- THE JOINT EDGES CAN BE MASKED WITH TAPE TO PREVENT CONTAMINATION OF ADJACENT SUBSTRATES. THE TAPE SHOULD BE REMOVED CAREFULLY AFTER TOOLING.
- CUT TIP OFF CARTRIDGE. CUT NOZZLE TO DESIRED SIZE AT 45°ANGLE. SCREW NOZZLE ONTO CARTRIDGE. PLACE CARTRIDGE INTO CAULKING GUN.
- EXTRUDE THE SEALANT FILMLY INTO JOINT TO ENSURE COMPLETE CONTACT WITH JOINT FACES.
- TOOL AS REQUIRED WITHIN THE TOOLING TIME TO ACHIEVE SMOOTH SURFACE.

CURING TIME:

MS-603 WILL SKIN FORMING IN APPROXIMATELY 15 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.



PAINTABILITY

MS-603 IS PAINTABLE WITH WATER BASED PAINTS, HOWEVER DUE TO LARGE NUMBER OF PAINTS AND VARNISHES AVAILABLE WE STRONGLY SUGGEST A COMPATIBILITY TEST BEFORE APPLICATION. PAINTS BASED ON ALKYD RESINS MAY HAVE EXTENDED DRYING TIME.

NOTE: MS-603 HAS LARGER MOVEMENT CAPABILITY THAN A NORMAL PAINT FILM. CRACKING OF PAINT FILM MAY OCCUR WITH MOVEMENT IN JOINT.



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CHEMICAL RESISTANCE:

GOOD RESISTANCE TO WATER, DILUTED INORGANIC ACIDS AND ALKALIS.

POOR RESISTANCE TO CONCENTRATED ACIDS AND ALKALINE SOLUTIONS, ORGANIC SOLVENTS, AND HALOGENATED HYDROCARBONS.

CLEAN UP

EXCESS SEALANT CAN BE REMOVED WITH MINERAL SPIRIT AND CLEANING SOLVENT BEFORE CURED. AFTER CURING, MS-603 MAY ONLY BE REMOVED MECHANICALLY.

LIMITATIONS:

MS-603 IS NOT SUITABLE FOR THE FOLLOWING APPLICATIONS:

- PE, PP, PTFE, PLASTICS CONTAINING SOFTENERS, AND BITUMINIOUS SUBSTRATES
- STRUCTURAL GLAZING
- TOTALLY CONFINED SPACES WHERE THERE IS NO ATMOSPHERIC HUMIDITY, WHICH IS NEEDED FOR PROPER CURING
- UNDER WATER APPLICATIONS
- HEAVY TRAFFICABLE SURFACE / JOINTS
- EXPOSURE TO AGGRESSIVE SOLVENTS OR CHEMICALS
- FOOD CONTACT

PACKAGING:

290 ML CARTRIDGES / 24 PER CARTON
 600 ML SAUSAGES / 20 PER CARTON

COLOUR:

WHITE, GREY AND BLACK, OTHER COLOURS UPON REQUEST.

SHELF LIFE:

9 MONTHS FOR CARTRIDGE PACKAGING & 12 MONTHS FOR SAUSAGE PACKAGING (UNOPENED) IN A COOL AND DRY STORAGE PLACE AT TEMPERATURES BETWEEN +5°C AND +30°C.

QUANTITY ESTIMATION

NUMBER OF 600ML SAUSAGE

$$= \frac{JOINT\ WIDTH\ (MM) \times JOINT\ DEPTH\ (MM) \times JOINT\ LENGTH\ (M) \times 1.15}{600}$$

NUMBER OF 290ML CARTRIDGE

$$= \frac{JOINT\ WIDTH\ (MM) \times JOINT\ DEPTH\ (MM) \times JOINT\ LENGTH\ (M) \times 1.15}{290}$$

* WITH 15% WASTAGE ESTIMATION



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SPECIFICATION:

| PROPERTIES | VALUE | METHOD |
|--|---|-------------|
| CURING SYSTEM | NEUTRAL | - |
| APPEARANCE | NON-SAGGING PASTE | VISUAL |
| SMELL | ODOURLESS | VISUAL |
| SPECIFIC GRAVITY | 1.58 +/- 0.02 (WHITE & GREY) 1.56 +/- 0.02 (BLACK) | ASTM D 1475 |
| HARDNESS (SHORE A) | 30 | ASTM D2240 |
| ELONGATION AT BREAK | 800% APPROX. | ASTM D412 |
| TENSILE AT BREAK | 0.75 MPA | ASTM D412 |
| SECANT MODULUS @ 23°C AT 100% ELONGATION | 0.38 MPA | ASTM D412 |
| APPLICATION TEMP. | 5°C TO 40°C | - |
| SERVICE TEMP. | -40°C TO 100°C | - |
| LAP SHEAR STRENGTH (AL. TO AL.) | 0.80 MPA | ASTM C961 |

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.



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