

MS-617

FACADE HYBRID SEALANT



DESCRIPTION:

x'traseal® MS-617 IS BASED UPON **HYBRID SILYL MODIFIED POLYETHER TECHNOLOGY**. IT IS AN ODORLESS, ONE PART ADHESIVE SEALANT DESIGNED FOR FAÇADE SEALING & 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

- ◆ 50% MOVEMENT CAPABILITY
- ◆ GOOD MECHANICAL STRENGTH
- ◆ NON-BLEEDING AND CRACK RESISTANT
- ◆ NO VISIBLE STAIN EVEN ON POROUS SUBSTRATE
- ◆ EXCELLENT UV RADIATION AND WEATHER RESISTANCE
- ◆ 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

USES:

MS-617 IS SPECIALLY DEVELOPED FOR FAÇADE SEALING & ALSO 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-617 HAS A MOVEMENT ACCOMODATION FACTOR (MAF) OF 50 %. 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 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:

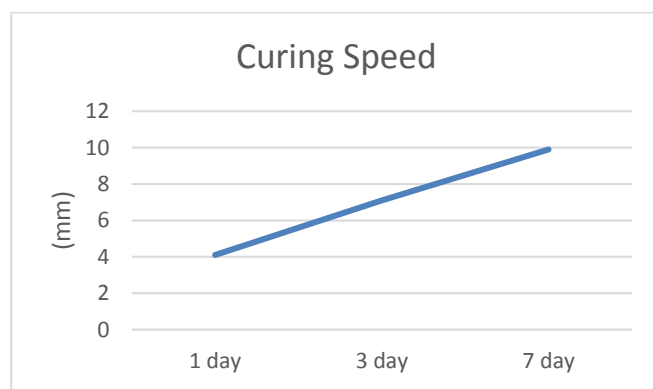
6MM X 6MM
6MM X 12MM
10MM X 20MM

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-617 WILL SKIN FORMING 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.



PAINTABILITY

MS-617 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-617 HAS LARGER MOVEMENT CAPABILITY THAN A NORMAL PAINT FILM. CRACKING OF PAINT FILM MAY OCCUR WITH MOVEMENT IN JOINT.



MOHM CHEMICAL SDN. BHD. (REG NO 276851-U)
No. 32, Jalan Temenggong, Off Jalan Tampoi, 81100 Johor Bahru, Johor,
Malaysia. Tel : +607 333 1222 Fax : +607 332 0545 / 333 7919
Website: www.xtraseal.com Email: info@mochem.com

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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-617 MAY ONLY BE REMOVED MECHANICALLY.

LIMITATIONS:

MS-617 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

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

NUMBER OF 290ML CARTRIDGE

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

* 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	1.57 +/- 0.02 (WHITE & GREY) 1.55 +/- 0.02 (BLACK)	ASTM D 1475
HARDNESS (SHORE A)	35 APPROX.	ASTM D2240
ELONGATION AT BREAK	850% APPROX.	ASTM D412
TENSILE AT BREAK	0.76 MPA	ASTM D412
SECANT MODULUS @ 23°C AT 100% ELONGATION	0.31 MPA	ASTM D412
APPLICATION TEMP.	5°C TO 40°C	-
SERVICE TEMP.	-40°C TO 90°C	-
LAP SHEAR STRENGTH (AL. TO AL.)	0.90 MPA	ASTM C961

CAUTION:

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

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