

TECHNICAL DATA SHEET



625°F HI-TEMP BLACK RTV SILICONE

DESCRIPTION:

SILOCK 625°F HI-TEMP BLACK RTV SILICONE IS DEVELOPED FOR THE HOT RUNNING ENGINES FOUND IN MOST DOMESTIC AND FOREIGN CARS. HIGH TEMP BLACK 100% RTV WITHSTANDS TEMPERATURES FROM -80°F TO + 625°F (-62°C TO 329°C) INTERMITTENT. PRESSURE RESISTANCE: 5000PSI. MAKES ANY SIZED OR SHAPED GASKET IMMEDIATELY. IDEAL FOR TIMING COVERS, VALVE COVERS, OIL PANS, INTAKE MANIFOLDS, EXHAUST MANIFOLDS AND WATER PUMPS.

FEATURES:

- ◆ OUTSTANDING HIGH TEMPERATURE RESISTANT (UPTILL 329°C).
- ◆ EXCELLENT GUNNABILITY (-20°C TO 50°C).
- ◆ LOW SHRINKAGE.
- ◆ NON SAGGING.
- ◆ PRIMERLESS ADHESION TO MOST MATERIALS.

USES:

- ◆ HIGH TEMPERATURE RESISTANT GASKET AND JOINT SEALING.
- ◆ SEALING OF THE HOT RUNNING ENGINES.
- ◆ FORMING IN PLACE GASKETING APPLICATIONS.
- ◆ ASSEMBLIES OF GLASS, PORCELAIN COATED METAL, EPOXY AND POLYESTER PANELS, POLYSTYRENE, ANODISED ALUMINIUM, STAINLESS STEEL, FINISHED METAL SURFACE AND FINISHED WOOD.
- ◆ GASKET FOR TIMING COVERS, VALVE COVERS, OIL PANS, INTAKE MANIFOLDS, EXHAUST MANIFOLDS AND WATER PUMPS.

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

NOT RECOMMENDED FOR:

NOT SUITABLE FOR USE WHERE THE ACETIC ACID COMPONENT WILL CORRODE THE BASE MATERIAL.

NOT FOR: 625°F HI-TEMP BLACK RTV SILICONE IS NOT PAINTABLE.

NOT FOR: PE, PP, PTFE AND BITUMINOUS SURFACE.

NOT FOR: PARTS IN CONTACT WITH GASOLINE.

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 S-A1 SEALANT BEAD SHOULD BE COMPUTED ON THE BASIS OF A MAXIMUM $\pm 25\%$ 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.

SUITABLE JOINT DEPTH VS WIDTH:

6mm x 6mm

8mm x 12mm

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10mm x 20mm

- * JOINT SIZE MINIMUM 3mm x 3mm.
- * JOINT SIZE MAXIMUM 30mm.

APPLICATION:

- ◆ REMOVE OLD GASKET MATERIAL FROM SURFACES THOROUGHLY.
- ◆ CLEAN SURFACE WITH RESIDUE-FREE SOLVENT AND ALLOW SURFACE TO DRY.
- ◆ CUT NOZZLE TO DESIRED SIZE.
- ◆ SQUEEZE TUBE TO FORM A CONTINUOUS AND EVEN BEAD TO THE PERIMETER OF MATING SURFACE AND ALL BOLT HOLES.
- ◆ TOOL WITHIN 5 MINUTES.
- ◆ TIGHTENED TO THE REQUIRED TORQUE, DO NOT OVERTIGHTEN.
- ◆ CLEAN OFF EXCESS SEALANT WITH M.E.K. OR TOLUENE.

CURING TIME:

625°F HI-TEMP BLACK RTV SILICONE WILL TACK FREE IN APPROXIMATELY 15 MINUTES AND WILL CURE TO A DEPTH OF 10mm WITHIN 7 DAYS. LONGER CURING TIME MAY BE NECESSARY IN DRY AND LOW HUMIDITY AREA.

SPECIFICATION:

CURING SYSTEM	ACETOXY
APPEARANCE	NON-SAGGING PASTE
ODOUR	VINEGAR SMELL
SPECIFIC GRAVITY	1.03 ± 0.03
SHORE A HARDNESS	23 APPROX.
ELONGATION	400% APPROX.
TENSILE STRENGTH	2.0MPa APPROX.
TOOLING TIME	5 MINUTES
TACK FREE TIME	15 MINUTES
APPLICATION TEMP.	-20°C TO 50°C
SERVICE TEMP.	-40°C TO 330°C
SHELF LIFE	12 MONTHS

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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