

TECHNICAL DATA SHEET



500°F BLUE RTV SILICONE

DESCRIPTIONS:

SILOCK 500°F BLUE RTV SILICONE IS A HIGH TEMPERATURE RESISTANCE SILICONE FOR HEAVY-DUTY APPLICATIONS, THIS FAST CURING SILICONE MAKES PERFECT GASKET THAT RESIST CRACKING, SHRINKAGE AND MIGRATION CAUSE BY THERMAL CYCLING, IT REMAIN FLEXIBLE AND STABLE FROM THE TEMPERATURE OF -80°F TO + 500°F (-62°C TO 260°C), IDEAL FOR ENGINE REPARING AND REPLACEMENT FOR PAPER, RUBBER AND ASBESTOS GASKET, SUCH AS VALVE COVERS, WATER PUMPS, THERMOSTAT HOUSING, TRANSMISSION PAN ETC.

FEATURES:

- ◆ FLEXIBLE AT LOW AND HIGH TEMPERATURES
- ◆ EXCELLENT OIL AND GREASE RESISTANCE.
- ◆ PRIMERLESS ADHESION TO MOST MATERIALS.
- ◆ NO SAGGING.

USES:

- ◆ HIGH TEMPERATURE RESISTANT GASKET AND JOINT SEALING.
- ◆ FORM IN PLACE GASKET APPLICATIONS.
- ◆ ASSEMBLIES OF VALVE COVER, TIMING COVER, OIL PAN, TRANSMISSION PAN, WATER PUMP, THERMOSTAT HOUSING FOR AUTOMOBILES.

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: 500°F BLUE 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 THERMAL EXPANSION AND CONTRACTION.

GENERALLY CALCULATION OF THE WIDTH OF SEALANT BEAD SHOULD BE COMPUTED ON THE BASIS OF A MAXIMUM ± 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

10MM X 20MM

* JOINT SIZE MINIMUM 3MM X 3MM.

* JOINT SIZE MAXIMUM 30MM.

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- ◆ 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:

500°F BLUE RTV SILICONE WILL TACK FREE IN APPROXIMATE 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.

SPECIFICATIONS:

CURING SYSTEM	ACETOXY
APPEARANCE	NON-SAGGING PASTE
ODOUR	VINEGAR SMELL
SPECIFIC GRAVITY	1.03 ± 0.03
SHORE A HARDNESS	29 APPROX.
ELONGATION	400% APPROX.
TENSILE STRENGTH	2.8MPA APPROX.
TOOLING TIME	5 MINUTES
TACK FREE TIME	15 MINUTES
APPLICATION TEMP.	-20°C TO 50°C
SERVICE TEMPERATURE	-62°C TO 260°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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