

# Technical Data Sheet

## Red Devil 0956 King Kaulk Adhesive & Sealant – White & Colors

### Description

Premium performance adhesive & sealant with excellent durability & maximum adhesive strength. Based on MS Polymer Technology & chemically neutral, King Kaulk™ is moisture curing, remains elastic & is paintable with most paints. Inherently ECO Efficient due to its durability, conserving energy & material resources, product exhibits excellent elastomeric properties.

### Key Features

- Outstanding bond strength on most substrates – primer less adhesion on most damp & non-porous surfaces
- Remains flexible after cure
- Excellent application even in adverse conditions
- No bubble formation within sealant
- Cured bead mildew resistant
- Color stable & UV resistant – non-yellowing
- Contains no isocyanates, solvents, halogens or acids
- Non-staining on natural stone, granite & marble
- VOC Compliant – inherently eco efficient
- Non-corrosive & low odor
- Non-flammable & freeze-thaw stable

### Uses

Suitable for nearly any application/substrate in the building industry, King Kaulk™ is designed for the most demanding applications & adverse conditions. Excellent adhesion to many substrates including aluminum, steel, glass, wood & many plastics. Suitable for floor joints, low movement wall joints, K&B areas, sheet metal fabrication & mirrors.

### Surface Preparation

Apply to clean, dry surfaces\* free of contaminants that can adversely affect adhesion. Remove all old sealant before applying King Kaulk™. Remove mildew by scrubbing with a solution of 4 oz TSP (Trisodium Phosphate), 1 quart of liquid bleach mixed with 3 quarts of warm water. Protect eyes & hands by wearing goggles & chemical resistant gloves. Thoroughly rinse surface & allow to dry before caulking & painting.

\* King Kaulk will adhere to damp/wet surfaces (otherwise clean & sound); however a dry surface application should be performed whenever possible.

### Directions

1. Clip off tip of nozzle @ 45 degree angle to desired size.
2. Apply using steady even pressure to completely bridge joints.
3. Smooth sealant before skin formation using the back of a spoon or similar object, dipped into a soapy water solution.
4. Wipe away excess using a cloth & mineral spirits, prior to cure.
5. May be painted with most industrial & consumer paints following approximately 2 hrs drying time. Test for paint crack resistance & overall compatibility in a small inconspicuous spot before painting, as some paints lack the flexibility to perform atop King Kaulk™

<u>Physical/Performance Property</u>	<u>Test Method</u>	<u>Typical Result</u>
Weight Per Gallon	Gardner Cup	Approx. 13.0
Specific Gravity	Calculated	1.40 to 1.60
Total Non Volatile % Solids (Weight)	Computrac Analyzer	> 90%
Extrudability/Application (as packaged)	Semco Gun (6 oz @ 50 psi)	Approx 145 sec
Consistency/Appearance	Visual Observation	Smooth, Viscous Paste
Odor	Subjective	Low
Base Polymer	Known	MS Polymer Blend/Silane Terminated
Pigment	Known	Calcium Carbonate/Titanium Dioxide
Flash Point	Closed Cup	>200F
Freeze/Thaw Stability	Test Lab 0 F/77 F @24 hrs or ASTM C731	Passes 5 Cycles
Shelf Life	Lab 50 C Oven – Accelerated	12 mo @ 72F - unopened
Slump	ASTM D2202 Jig	None
Artificial Weathering	ASTM – QUV Tester	5,000 hrs QUV - Passed
Flexibility	ASTM 734	Excellent @ -15 F
Tack Free Time	ASTM D2377	60 to 75 minutes @ 77F/50% RH
Shore A Hardness	ASTM D2240	Approx. 50 +/- 5
Storage Conditions	Test Lab	Cool & Dry (40F to 80F)
Application Temperature	Test Lab	34F to 95F
Service Temperature	Lab Oven/QUV/Freezer/OE Fence	-40F to 194F
Paintability	Test Lab/Field Evaluation	Excellent w/ most industrial & consumer paints; 2 hrs drying (test prior to painting)
Staining	Test Lab	Non-staining
% Elongation @ Break	ASTM D412	Minimum 400%
Tooling	Test Lab	Back of spoon/soapy water solution
Skin Over Time	Test Lab	Approx 5 minutes
Tensile Strength	Instron	Approx 300 psi
Coverage Per Cartridge	Test Lab – 3/16" bead	Approx 50 linear feet – 3/16" bead

### Clean Up

Mineral Spirits before cure. Wash hands with soap & water after use

### For Best Results

- Tool applied bead with a spoon or similar object, dipped into a soapy water solution
- Due to the wide variety of paints available, a compatibility test before application, is recommended as some paints lack sufficient flexibility to perform atop King Kaulk™
- Use w/ adequate ventilation (See MSDS for additional information)
- Avoid skin & eye contact
- Pre-testing for adhesion is recommended to eliminate potential field problems
- Do not apply to frost-bearing surfaces or if temperatures will be below freezing prior to cure

### Color

White & Core Colors

### Packaging

9.8 oz HDPE cartridge w/ screw-on nozzle, 2.8 oz Metal Sq. Tube on Blister Card

### Limitations

- Not recommended for use on PE, PP or PTFE (Teflon®), due to poor adhesion to these substrates
- Not recommended for application over silicone sealant
- Bonding plastics like PMMA (Plexi® glass), polycarbonate (Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking & crazing in these substrates
- Poor resistance to aromatic solvents, concentrated acids & chlorinated hydrocarbons
- Solvent Clean up
- Not recommended for use as a glazing sealant
- Not recommended for applications below the water line/continuous immersion or for sealing/bonding windshields.
- Drying time of alkyd resin based paints may increase
- Product is combustible

### Environmental, Safety & Transportation Information

<u>Criteria</u>	<u>Evaluation Method</u>	<u>Status</u>
CARB Compliance	Documents Review	Yes
Prop 65 Ingredients	Documents Review	Yes (See MSDS)
DOT Proper Shipping Name	Review of Regs	Not regulated by DOT
DOT Hazard	Review of Regs	N/A
DOT UN/NA Number	Review of Regs	N/A
Packing Group	Review of Regs	N/A
VOC Content	Calculated	1%/wt or less (10 grams/liter or less)

**CAUTION: NOT FOR INTERNAL CONSUMPTION. KEEP OUT OF REACH OF CHILDREN & PETS. KEEP FROM FREEZING. WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. (See MSDS for additional information)**

**Contains Titanium Dioxide; added to Massachusetts Right to Know List, Minnesota Hazardous Substance List, New Jersey Right to Know List, Pennsylvania Right to Know List & Rhode Island Hazardous Substance List.**

**Adhesion-in-Peel: ABS Plastic: ~29. Alcoa Vinyl: ~32. Aluminum: ~31. Brick: ~15. Certainteed Vinyl: ~25. Concrete: ~15. Fiberglass: ~30. Glass: ~25. Pine: ~28. PVC: ~29. Steel: ~25. Tile: ~30.**  
**Note: ~ = Approximately.**

### LIMITED WARRANTY

Recommendations for use of this product are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where this product is used under conditions beyond our control. If when applied as directed, this material peels, cracks or separates, it will be replaced without charge upon presentation of proof of purchase and used cartridge. This limited warranty only applies to residential use and damages including consequential damage and other remedies are excluded. No other warranties apply, including fitness for a particular purpose.

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SEE MSDS FOR ADDITIONAL DATA/INFORMATION