

# 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™

#### Physical/Performance Property

Weight Per Gallon

Specific Gravity

Total Non Volatile % Solids (Weight)

Extrudability/Application (as packaged)

Consistency/Appearance

Odor

Base Polymer

Pigment

Flash Point

Freeze/Thaw Stability

Shelf Life

Slump

Artificial Weathering

Flexibility

Tack Free Time

Shore A Hardness

Storage Conditions

Application Temperature

Service Temperature

Paintability

Staining

% Elongation @ Break

Tooling

Skin Over Time

Tensile Strength

Coverage Per Cartridge

#### Test Method

Gardner Cup

Calculated

Computrac Analyzer

Semco Gun (6 oz @ 50 psi)

Visual Observation

Subjective

Known

Known

Closed Cup

Test Lab 0 F/77 F @24 hrs

or ASTM C731

Lab 50 C Oven – Accelerated

ASTM D2202 Jig

ASTM – QUV Tester

ASTM 734

ASTM D2377

ASTM D2240

Test Lab

Test Lab

Lab Oven/QUV/Freezer/OE Fence

Test Lab/Field Evaluation

Test Lab

ASTM D412

Test Lab

Test Lab

Instron

Test Lab – 3/16" bead

#### Typical Result

Approx. 13.0

1.40 to 1.60

> 90%

Approx 145 sec

Smooth, Viscous Paste

Low

MS Polymer Blend/Silane Terminated

Calcium Carbonate/Titanium Dioxide

>200F

Passes 5 Cycles

12 mo @ 72F - unopened

None

5,000 hrs QUV - Passed

Excellent @ -15 F

60 to 75 minutes @ 77F/50% RH

Approx. 50 +/- 5

Cool & Dry (40F to 80F)

34F to 95F

-40F to 194F

Excellent w/ most industrial & consumer paints; 2 hrs drying (test prior to painting)

Non-staining

Minimum 400%

Back of spoon/soapy water solution

Approx 5 minutes

Approx 300 psi

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

**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.

TDS Number: 0956TD

Date of Issue: January 26, 2010

SEE MSDS FOR ADDITIONAL DATA/INFORMATION