

# Work Zone Kitchen & Bath 100% Silicone Sealant

# TECHNICAL DATA SHEET

6

## 1. PRODUCT NAME

Work Zone Kitchen & Bath Silicone Sealant

## 2. MANUFACTURER

ICB Products,  
75 Chambers Drive, Unit 9,  
Ajax, Ontario, L1Z 1E1.  
Phone: (905) 619-0115  
FAX: (905) 619-6583

## 3. PRODUCT DESCRIPTION

Work Zone Kitchen & Bath Silicone Sealant is a single component, fungicidal (mildew resistant), silicone rubber sealant designed to seal nonporous surfaces. It is long lasting, and forms a watertight, mildew resistant seal. Work Zone Kitchen & Bath Silicone sealant remains flexible and will not shrink, crack, crumble or dry out. The sealant resists mildew even in prolonged hot and humid environments, resists staining,

spotting and colour changes, and resists moisture, hot cooking oils, and free steam. It is easy to apply, finger smoothable, non-flammable, and mildew resistant.

**Basic Use:** Recommended to seal nonporous surfaces around tubs, showers, sinks, faucets, anywhere a watertight mildew resistant seal is required. Also use it as an excellent adhesive for small kitchen & bath accessories, such as towel holders, soap dishes, toilet paper holders, and more. Adheres to most nonporous surfaces, including ceramic, porcelain, enamel, fiberglass, metal, glass, rubber, painted surfaces, and more.

**Composition and Materials:** Work Zone Kitchen & Bath Silicone is a 100% silicone polymer with no organic fillers. It contains agents added to increase resistance to mildew.

**Colours available:** clear, white, gray, pewter, bone, almond. Custom colors also available.

**Sizes:** 300 ml cartridges, 18.9 litre pails, and 200 litre drums.

**Grade:** gun grade, nonsagging.

**Limitations:** Not recommended for continuous water immersion, or for floor joints where abrasion and physical abuse are encountered. Do not apply to porous surfaces, such as masonry, or on building materials that bleed oils or solvents, such as certain impregnated woods and certain partially vulcanized rubber gaskets, tapes or adhesives. Do not use in totally confined spaces, because the sealant needs atmospheric moisture to cure. Do not use in aquariums as the bio agents in the sealant may be toxic in solution. Paint does not adhere well to silicone. Before product application, user should determine suitability of

Kitchen & Bath Silicone for intended use.

## 4. TECHNICAL DATA

**Applicable Standards:** Work Zone Kitchen & Bath Silicone Sealant passes the performance requirements of the following specifications:

- CGSB CAN2-19.13-M87. Canadian standard for silicone sealants.
- TT-S-00230c (Class A), Type II. US federal spec for sealants.
- ASTM C 920 with the exception of glass adhesion through UV exposure.
- TT-S-1543A. US Federal specification for silicone sealing compounds.
- FDA Regulation No.21 CFR177.2600.

**Weight** - 1.03 Kg/litre (8.32 Lb./gal.)

**Shelf life** - 2+ years

**Skin Time** - 10-20 minutes under normal conditions

**Cure Time** - 24 hours

**Paintability** - not recommended

**Resistance to dirt pickup** - Very good

**Flash point** - N/A

**pH** - not determined

**Odour** - moderate acetic acid (vinegar smell)

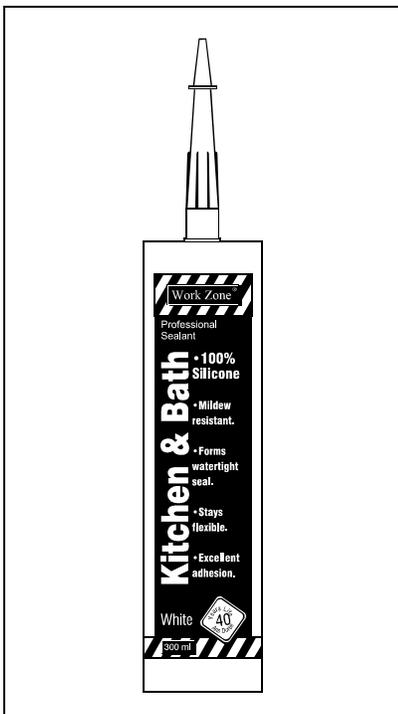
**Freeze-thaw stability** - stable

**Storage temperature** - unaffected by temperature, but +5°C to 37°C (40°F to 100°F) is recommended

## 5. INSTALLATION

**Joints:** Maximum joint size recommended is 13mm (1/2").

**Surface Preparation:** Thoroughly clean and degrease all surfaces. Then rinse all surfaces, except plastic, with acetone. Rubber surfaces should be roughened with sandpaper, then wiped with acetone.



## Typical Properties - These values are not intended for use in preparing specifications

### Uncured

Specific Gravity	1.03
Extrusion Rate (1/8-inch orifice, 90 psi air pressure), g/min	400
Flow Rate (sag or slump on 1/8-inch x 4-inch bead)	Nil
Tack-Free Time at 25 C (77 F) and 50% RH, hours	1
Cure Time at 25 C (77 F) and 50% RH (1/8-inch thickness), hours	24

### As Cured<sup>1</sup> - Physical

ASTM D 2240	Durometer Hardness, Shore A, points	27
ASTM D 412 Die C	Tensile Strength, Mpa (psi)	2.4 (350)
ASTM D 412 Die C	Elongation, percent	600
ASTM D 746	Brittle Point, °C (°F)	-62 (-80)
ASTM D 2137A	Volume Coefficient of Thermal Expansion, 0 to 100 C (32 to 212 F)	$9.3 \times 10^{-4}$
	Thermal Conductivity, cal/(cm) (°C) (sec)	$0.45 \times 10^{-3}$
	BTU per (ft) (°F) (hr)	0.11
	Lap Shear Adhesion <sup>2</sup> , strength, psi	192
	1/16-inch lap joint thickness	192
	1/8-inch lap joint thickness	113
	1/4-inch lap joint thickness	67
	3/8-inch lap joint thickness	44
	1/2-inch lap joint thickness	37

Staining

Weathering (6,000 hours in Atlas Weatherometer)

None  
No change in hardness

### As Cured<sup>3</sup> - Electrical

ASTM D 257	Volume Resistivity, ohm-cm	$1.5 \times 10^{15}$
ASTM D 149	Dielectric Strength <sup>4</sup> , volts/mil	550
ASTM D 150	Dielectric Constant	at 60 Hz 2.8 at 100 Hz 2.8 at 100kHz 2.8
ASTM D 150	Dissipation Factor	at 60 Hz 0.0015 at 100 Hz 0.0015 at 100kHz 0.0015

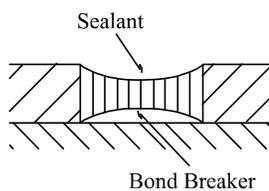
<sup>1</sup>Measured on 1.91-mm-thick (0.075-inch) slabs after curing 72 hours at 25 C (77 F) and 50% RH.

<sup>2</sup>Measured with 1/4-inch overlap on test piece.

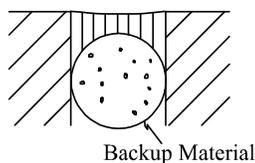
<sup>3</sup>Measured on 1.91-mm-thick (0.075-inch) cross section after vulcanizing 72 hours at 25 C and 50% RH.

<sup>4</sup>Measured at 65-mil thickness, 1/4-inch ASTM electrodes in oil, rapid rise.

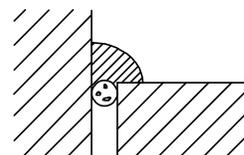
### Recommended Methods of Application



Joint Over 9 mm (3/8")

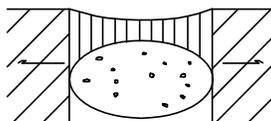


Joint Under 9 mm (3/8")

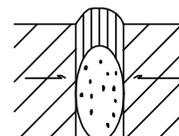


Corner Joint

Properly Applied  
Sealant Under Stress



Maximum Extension



Maximum Compression

## 5. INSTALLATION (continued)

**Joint Backing:** Backer rods should be used in joints over 9mm (3/8"). Bond breaker tape should be used in shallower joints to prevent three sided adhesion.

**Weather Considerations:** Do not apply to exterior surfaces if rain is expected within 24 hours.

**Service Time:** Let dry 24 hours before exposing to water.

**Cleanup:** There is no commercial solvent which will dilute uncured silicone, so care must be taken when applying. Wipe excess uncured silicone away carefully with a soft cloth.

## 6. AVAILABILITY AND COST

Marketed throughout Canada and some foreign countries. Work Zone Kitchen & Bath Silicone Sealant is sold through building supply, hardware, paint, and specialty distributors. Costs are available from local Work Zone distributors and

representatives, or from company corporate offices.

## 7. WARRANTY

ICB Products warrants that Work Zone Kitchen & Bath Silicone Sealant is manufactured according to our published standards, and that it is free from defects. ICB Products will provide replacement for, or refund the purchase price of, that portion of material which proves defective. This constitutes the limit of ICB Products' liability and obligation. The company will not be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user must determine suitability of the product for intended use, and user assumes all risk and liability whatsoever in connection therewith.

## 8. MAINTENANCE

No maintenance is required for properly applied, cured product.

## 9. TECHNICAL SERVICES

Technical assistance is available from ICB Products corporate offices only. Information and testing results are guidelines only and not intended for preparing specifications.

## 10. FILING SYSTEMS

- Technical Data Sheet
- Product catalogues, brochures.
- Additional product information is available upon request.

## 11. COPYRIGHT

The information recorded on this technical data sheet is protected by copyright. Duplication in whole or in part is prohibited unless consent is expressly given by ICB Products.

© 2000, ICB Products.  
All rights reserved.