

Work Zone 100% Silicone ADV Premium Sealant

TECHNICAL DATA SHEET

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1. PRODUCT NAME

Work Zone 100% Silicone ADV

2. MANUFACTURER

ICB Products,
75 Chambers Drive, Unit 9,
Ajax, Ontario, L1Z 1E1.
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3. PRODUCT DESCRIPTION

The latest in ADVanced silicone technology, 100% Silicone ADV is a low odour, non-corrosive, fast cure premium grade sealant. Forms a completely weatherproof and watertight seal, and is an excellent choice for any construction and renovation job. It can withstand large amounts of joint movement and will outlast most any other sealant. 100% Silicone ADV also goes where regular silicone and water based sealants can't. Regular silicone has

poor adhesion to plastic, especially vinyl, however 100% Silicone ADV exhibits premium adhesion to vinyl, PVC, ABS, & other plastics. Some water based sealants have good adhesion, but in cold weather they stiffen and freeze, making them a poor choice for year round work. Silicone ADV will not freeze, and cures at temperatures far lower than water based sealants. Other solvent based sealants such as thermoplastics may be usable year round, however the smell is very unpleasant and they become either too thick or thin in cold or hot temperatures, 100% Silicone ADV has a very low odour and is suitable for use both indoors and outdoors with good all temperature gunnability. The sealant has excellent weatherability and is virtually unaffected by sunlight, snow, rain, ozone, or temperature extremes. The seals remain water tight and weatherproof, and stay permanently flexible, will not shrink, crack, crumble or dry out. It may be applied in subzero weather without loss of extrusion or physical property characteristics and is stays effective between -62°C to 204°C. It is easy to apply, finger smoothable, and non-flammable.

Basic Use: Recommended for door jam beads, interior window beads, weather sealing, air sealing, flashings, siding, gutters, perimeter sealing, window frames, back pans, butt glazing. Excellent for window glazing, bedding, and beading. Exhibits superior adhesion on most interior and exterior surfaces, plus improved adhesion to vinyl, PVC, ABS, and most plastics.

Composition and Materials: Work Zone 100% Silicone ADV is a premium grade, one part neutral cure silicone

sealant made from 100% silicone polymers with no organic fillers.

Colours available: clear, white, gray, almond, dark brown/bronze, black. Custom colors also available.

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

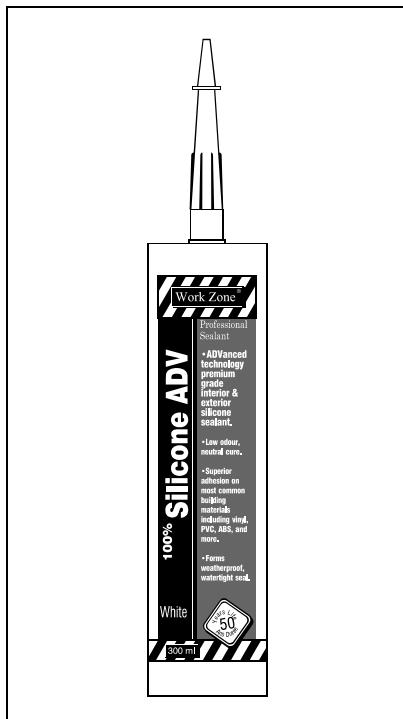
Grade: gun grade, nonsagging.

Limitations: Not recommended for continuous water immersion, or where abrasion and physical abuse are encountered. Do not apply 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 100% Silicone ADV for intended use.

4. TECHNICAL DATA

Applicable Standards: Work Zone 100% Silicone ADV 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.

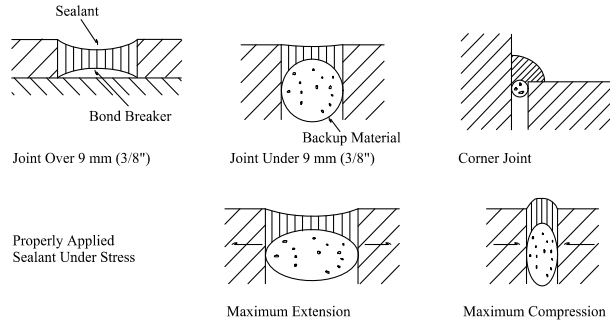


Typical Properties - These values are not intended for use in preparing specifications

Uncured		As Cured¹ - Physical	
Specific Gravity	1.05	Durometer Shore A Hardness	30
Extrusion Rate	450 g/min, easily gunned, goes on smoothly and easily	Tensile Strength	2 M Pa
Flow Rate (sag or slump on 1/8-inch x 4-inch bead)	Nil.	Elongation	350 %
Skin Over Time (25°C & 50% R.H.)	10 minutes	Movement Capability	50 %
Tack-free Time (25°C & 50% R.H.)	25 minutes	Lap Shear Strength	1 M Pa
Tooling Time (25°C & 50% R.H.)	7-10 minutes	Adhesion	Exhibits excellent unprimed adhesion on (but not limited to) brick, stone, glass, aluminum, wood, vinyl, galvanized steel, EPDM, painted surfaces, most metals, most plastics, and much more.
Cure Time (25°C & 50% R.H.)	24 hours	Low Temperature Flexibility	Sealant stays flexible from -62°C to 204°C without tearing.
Application Temperature	All temperature gunnability from -37°C to 60°C, sealant can be applied during any season, sealant won't freeze, slump or sag.	Weatherability	Excellent. Virtually unaffected by sunlight, snow, rain, ozone, or temperature extremes. Seals remain watertight and weatherproof.
Odour	Slight ammonia scent.	Mildew Resistance	Contains a strong mildewcide
Storage Temperature (recommended)	5 to 40°C		
Shelf Life	2 years, minimum.		
Primers Required Prior to use	None		

¹Measured on 1.91-mm-thick (0.075-inch) slabs after curing 72 hours at 25 C and 50% RH

Recommended Methods of Application



4. TECHNICAL DATA(continued)

- Weight* - 1.05 Kg/litre (8.4 Lb./gal.)
- Shelf life* - 2+ years
- Skin Time* - 7-10 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* - mild (ammonia scent)
- 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.
- 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 select countries worldwide. Work Zone 100% Silicone ADV 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 100% Silicone ADV 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

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