

Work Zone High Performance Elastomeric Sealant

TECHNICAL DATA SHEET

3

1. PRODUCT NAME

Work Zone High Performance
Acrylic 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 High Performance Acrylic Sealant has the durability and flexibility of any elastomeric sealant (including silicone), but also the safe and easy to use features that professionals prefer. It exhibits the low/high temperature stretch, weather resistance, and bond strength necessary for the most extreme sealing demands. It outperforms butyl rubber, oil based, siliconized and regular latex caulks, yet is water

based, non-toxic, non-flammable, paintable, mildew resistant and environmentally safe.

Basic Use: Recommended for use on inside and outside surfaces, seams, and cracks, including expansion joints (with back-up material). Adheres well to all common building materials.

Composition and Materials: Work Zone High Performance Acrylic is made from an acrylic copolymer of the highest quality, in formulation with other proprietary components.

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

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

Grade: gun grade, nonsagging.

Limitations: Do not use underwater or in areas subject to water immersion. Not recommended for application at temperatures of 5°C (40°F) or below. Cold weather, high humidity, and restricted air flow will all delay cure time. Before product application, user should determine suitability of High Performance Acrylic for intended use.

4. TECHNICAL DATA

Applicable Standards: Work Zone High Performance Acrylic Sealant passes the performance requirements of the following specifications:

- CGSB CAN2-19.17-M90. Canadian standard for elastomeric sealants.
- TT-S-00230c (Class B), Type II. US federal spec for elastomeric sealants.
- ASTM C 920 (Type S), Grade NS, Class 12 ½. Standard for elastomeric sealants.
- ASTM C 834. Standard for latex sealing compounds.

- TT-S-1543A. Federal specification for silicone sealing compounds.
- AAMA 802.3-85 (Types I and II) and 805.2-85. Back bedding glazing compounds, adhering glass to aluminum.

Weight - 1.51 Kg/litre (12.6 Lb./gal.)

Shelf life - 2+ years

Skin Time - 16 minutes (25°C in ¼" section)

Cure Time - 24 to 72 hours

Paintability - as low as 60 minutes with latex, 6-8 hours with oil (depending on temperature, humidity, ventilation)

Resistance to dirt pickup - Good

Non-volatile - 81%

Flash point - N/A (water based)

pH - 7.5 - 8.0

Odour - slight, pleasant.

Freeze-thaw stability - 5 cycles passed, laboratory result.

Storage temperature - +5°C to 37°C (40°F to 100°F).

5. INSTALLATION

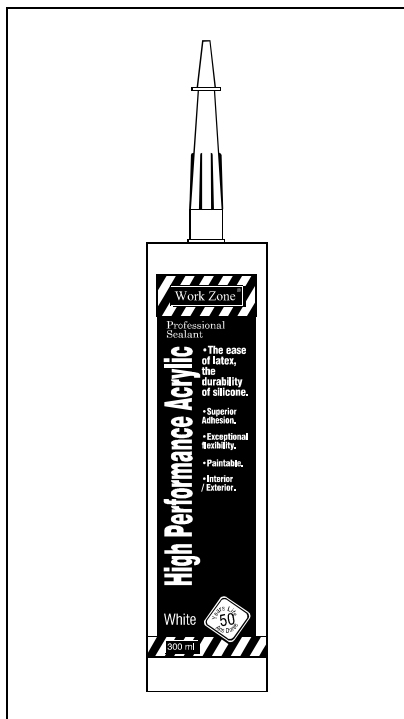
Joints: Maximum joint size recommended is 13mm (½").

Surface Preparation: Surface should be free of dirt, water, oil, or solvents; slight dampness may be present.

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: Apply only when temperature is above 5°C (40°F). Do not apply to exterior surfaces if rain is expected within 24 hours.

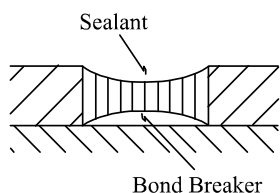
Cleanup: Use water and mild soap, if necessary, to clean tools and surfaces before High Performance Acrylic Sealant cures.



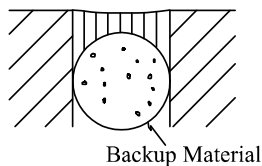
ASTM C 920 standard specification for elastomeric joints
 Type S, Grade NS, Class 12½, use NT, M, G and A

TEST		REQUIREMENT	PRODUCT RESULT
Rheological Properties	Vertical	50°C (122°F)	5 mm (3/16") maximum flow
		4°C (40°F)	5 mm (3/16") maximum flow
	Horizontal	50°C (122°F)	No deformation
		4°C (40°F)	No deformation
Extrusion Rate		45 seconds maximum	3 seconds
Hardness		Between 15 and 50	25
Effect Of Heat Aging		10% maximum weight loss	8.3% weight loss
		No cracking or chalking	Pass - no cracking/chalking
Tack-Free Time		72 hours maximum	1 hour
Stain		No stain on mortar	No stain
Colour Change		Acceptable to purchaser	No colour change
Adhesion and Cohesion Under Cyclic Movement	Aluminum	9.68 mm ² (1½ in ²) maximum; total bond loss 3 specimens	No bond loss
	Mortar	9.68 mm ² (1½ in ²) maximum; total bond loss 3 specimens	No bond loss
Bubble Formation	Glass	9.68 mm ² (1½ in ²) maximum; total bond loss 3 specimens	No bond loss
		1.6 mm (1/16") diameter	Less than 1.6 mm (1/16")
Adhesion In Peel	Aluminum	2.3 Kg (5 Lb.) minimum 25%; adhesion loss maximum	6.8 Kg - No adhesion loss
	Mortar	2.3 Kg (5 Lb.) minimum 25%; adhesion loss maximum	8.2 Kg - No adhesion loss
	Glass	2.3 Kg (5 Lb.) minimum 25%; adhesion loss maximum	6.8 Kg - No adhesion loss
Adhesion In Peel After UV Exposure Through Glass		2.3 Kg (5 Lb.) minimum 25%; adhesion loss maximum	7.3 Kg - No adhesion loss
Effects of Accelerated Weathering		UV exp. - Cracking Figure - 2 maximum	None
		Cold temperature cracking - 2 maximum	None

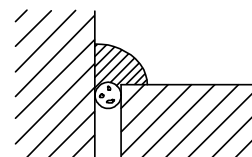
Recommended Methods of Application



Joint Over 9 mm (3/8")

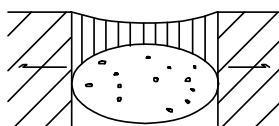


Joint Under 9 mm (3/8")

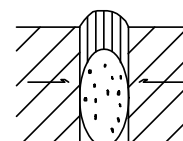


Corner Joint

Properly Applied Sealant Under Stress



Maximum Extension



Maximum Compression

6. AVAILABILITY AND COST

Marketed throughout Canada and some foreign countries. Work Zone High performance Acrylic 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 High Performance Acrylic 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.