

**Weld-Crete®** bonds new concrete, stucco, tile setting beds and terrazzo to any structurally sound surface, interior or exterior. Use Weld-Crete's® open time to your advantage in bonding to concrete shear walls when you need a time lapse between application of bonding agent, placement of reinforcement steel, placement of formwork and placement of concrete.



### Composition and Uses

The original chemical concrete bonding agent, Weld-Crete® incorporates polyvinyl acetate homopolymer in a patented formulation. For exterior and interior use, Weld-Crete® will bond new concrete, Portland cement plaster and cementitious mixes to structurally sound concrete floors, walls, columns, beams, steps and ramps. Weld-Crete® can be "painted on" in a single application 1 hour to 10 days prior to concrete placement. Use Weld-Crete's® open time to your advantage in bonding to concrete shear walls when you need a time lapse between application of bonding agent, placement of reinforcement steel, placement of formwork and placement of concrete.

Weld-Crete® is also used for: bonding setting beds for ceramic tile; bonding Portland cement plaster and stucco mixes; and to bond to surfaces such as brick, block, tile, marble, metal, glass block, soundly adhered paint (non-soluble in water, i.e. casien and calcimine paints), and silicone.

**Table 1: Performance Properties**

(Weld-Crete® & Plaster-Weld®)

PROPERTY	TEST METHOD AND RESULTS
	<i>(Data obtained from tests conducted periodically by leading independent laboratories. Test reports are available on request.)</i>
Tensile Bond Strength	ASTM C-932 for Weld-Crete®, average 485 psi. after 28 days. ASTM C-631 for Plaster-Weld®, average 304 psi. after 28 days.
Flexural Bond Strength	ASTM C-78 (concrete beams laminated with bonding agent). 603 psi.
Shear Bond Strength	ASTM C-1042 (slant shear cylinder test). 740 psi. Avg. 14 days.
Temperature Range	ASTM C-932 (Weld-Crete®); ASTM C-631 (Plaster-Weld®) specimens brought to 145° F, no bond failure.
Freeze-Thaw Stability	5 cycles freeze (-10° F & thaw). Freeze-thaw stable.
Toxicity	Enclosed mice exposed to 30 cc volatilized bonding agent for 1 hr. Non-toxic, no illeffects after 7 days.
Fire Resistance	ASTM E-119 (bonded assembly). Passed 2 hr. Fire Test 1800° F and 1 hr. Hose Stream Test.
Flammability	Lab. Tests for fire resistance. Non-flammable; meets MIL-B-19235C.
Acid Resistance	1" concrete slabs bonded to 1/2" gypsum plaster subjected to seepage of strong detergents & synthetic urine for 10 hrs. a day. No bond failure after 25 consecutive days. Also unaffected by alkalinity of cement.
Life Expectancy	Lab. tested & field proven. Non-deteriorating bond; retains strength & flexibility.

### Warranty

Weld-Crete® is suited for the purposes described when used according to directions. Buyer agrees in purchasing this product that the Seller's liability for breach of warranty shall in no case exceed the price of the product. Because of the broad range of conditions beyond our control which may be encountered in the use of the product, Larsen Products Corp. makes no other warranty, express or implied, and no agent or other person is authorized to do so. Nevertheless, we will be glad to provide information about any type of installation you may request.



SONOLASTIC®

### SONNEBORN® PREMIUM ADHESIVE

High-strength, high-solids polyurethane adhesive

#### Features

- ✓ VOC compliant...
- ✓ Strong and versatile
- ✓ Low odor...
- ✓ High solids
- ✓ Nonshrinking
- ✓ Fast curing
- ✓ High strength
- ✓ Long open time
- ✓ Will not freeze

#### Benefits

- ✓ Environmentally friendly
- ✓ Permanently bonds together almost anything
- ✓ Safe to use indoors or out
- ✓ No odor complaints
- ✓ Replaces solvent-based adhesives
- ✓ Excellent coverage
- ✓ Does not crack or lose bond
- ✓ Permanent overnight bond
- ✓ Stronger than many substrates it joins together
- ✓ Up to 3 times the strength of conventional adhesives
- ✓ Flexibility in repositioning, user friendly
- ✓ Can be applied to frozen lumber
- ✓ Suitable in hot and cold environments

#### Where to Use Sonneborn® Premium Adhesive

- Treated and untreated lumber
- Foam insulation
- Brick
- Metal
- Concrete
- Masonry
- Most rigid building materials
- Interior and exterior

#### Surface Preparation

■ Surfaces must be structurally sound, dry, clean, and free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofings, curing and parting compounds, and membrane materials.

#### Method of Application

- Apply by caulking gun or trowel.
- Wearing gloves during application is highly recommended. Once material has cured it cannot be removed.

■ Because of Sonneborn® Premium Adhesive's high strength, do not apply it as heavily as you would a conventional adhesive. Cut the smallest possible opening in the spout to render the appropriate-sized bead. Be certain to fill all gaps between materials.

- Materials may be repositioned without loss of adhesive strength up to 1 hour after application.
- Use mechanical fasteners to hold materials in place until adhesive has fully cured.

#### Curing Time

■ Sonneborn® Premium Adhesive forms a tenacious bond overnight. Cure time varies with temperature, humidity, and the porosity of the materials joined.

#### Clean Up

■ Clean all tools and equipment immediately after use with a dry cloth; Sonneborn Reducer 990 or xylene may also be used. Cured material must be mechanically removed.

#### For Best Performance

- Wear gloves during application of adhesive; once cured, material cannot be removed.
- Not intended for applications with continuous submersion.

■ If adhesion to a substrate is questionable, a test application must be conducted.

■ Make certain the most current version of this data guide is being used; call Customer Service [1.800.433.9517] to verify the most current version.

■ Proper application is the responsibility of the user. Field visits by ChemRex® personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.