

SECTION 09 21 00

PLASTER & GYPSUM BOARD ASSEMBLIES

09 97 00

SPECIALTY COATINGS

Plaster Weld

This guide specification has been prepared by Larsen Products in printed and electronic media, as an aid to specifiers in preparing written construction documents for bonding agents. Plaster-Weld® bonds new plaster to any clean, structurally sound, interior surface. It is a patented formulation incorporating polyvinyl acetate homopolymer designed for interior use only and provides a high performance bond with one-coat finish plaster and/or two and three coat work to concrete ceilings, walls, columns, beams, and other structurally sound surfaces. Plaster-Weld® prepares the surface to allow you to plaster directly to concrete over electric radiant heat cable, and to bond cement mortar beds to smooth concrete for installation of rigid foam insulation. Concrete, brick, block, glass, ceramic tile, wallboard, metals (e.g. sheet lead in x-ray rooms) and marble are suitable sound surfaces, structurally. Plaster-Weld® can be used over paints having oil, rubber or vinyl bases, and over silicone-treated surfaces, as well as latex paints.

Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences within brackets [] reflect a choice to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance, proprietary and descriptive type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices to be made. Remove these notes before final printing of specification.

This guide specification is written around the Construction Specifications Institute (CSI) Section Format standards.

For specification assistance on specific product applications, please contact our offices or any of our local product representatives throughout the country.

Larsen Products reserves the right to modify these guide specifications at any time. Updates for this guide specification will be posted on the manufacturer's web site and/or in printed matter as they occur. Manufacturer makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Section includes application of polyvinyl acetate homopolymer bonding agent for:
 - 1. Plaster, concrete, Portland cement stucco.
 - 2. Concrete ceilings, walls, columns, beams, and other structurally sound surfaces.
 - 3. Brick, block, glass, ceramic tile, wallboard, metals (e.g. sheet lead in x-ray rooms) and marble are suitable surfaces.

1.2 SUMMARY

- A. Section includes bonding agents for any structurally sound interior substrate

1.3 SUBMITTALS

- A. Product Data:

1. Submit manufacturer's descriptive literature and product specifications for each product.
2. Submit laboratory tests or data that validate product compliance with the performance criteria specified.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Company specializing in manufacturing Products specified in this Section with minimum [10] years documented experience.

1.5 DELIVERY AND STORAGE

- A. Deliver, store off the ground and covered, handle and protect products from moisture in accordance with manufacturer's instructions.
- B. Deliver materials in manufacturer's unopened containers, fully identified with brand, type, grade, class and all other qualifying information. Take necessary precautions to keep products clean, dry and free of damage.

1.6 WARRANTY

- A. Materials are guaranteed with respect to uniformity and quality within manufacturer's specifications.

1.7 PROJECT CONDITIONS

- A. Air and surface temperatures must be above freezing during application.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Larsen Products 8264 Preston Court Jessup, MD 20794 Phone:800.633.6668
www.larsenproducts.com

2.2 MATERIALS

Plaster Weld is a polyvinyl acetate homopolymer chemical concrete bonding agent, in a patented formulation. FOR INTERIOR USE ONLY.

1. Tensile Bond Strength: ASTM C-631 (pulling apart bonded cement briquet halves). In all cases failure occurred in the cementitious material, not in the bond. 385 psi. Avg. 28 days.
2. Temperature Range: ASTM C-109 (specimens brought to 35 degrees F for 1 hr., then to 310 degrees F for 2 hrs). No bond failure. Shear tests 400 psi. Avg.
3. Freeze-thaw Stability: 5 cycles freeze (-10 degrees F and thaw). Freeze-thaw stable.
4. Toxicity: Enclosed mice exposed to 30 cc volatilized bonding agent for 1 hr. Non-toxic, no ill effects after 7 days.
5. Flammability: Meets MIL-B-19235C.

6. 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.
7. Life Expectancy: Lab. tested & field proven. Non-deteriorating bond; retains strength & flexibility.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and adjoining construction, and conditions under which Work is to be installed. Do not proceed with Work until unsatisfactory conditions are corrected.
- B. Verify the following substrate conditions before application:
 1. That substrate condition is satisfactory and in accordance with manufacturer's instructions.
 2. That concrete surfaces are free of voids, spalled areas, loose aggregate.

3.2 PREPARATION

- A. Substrate must be structurally sound.
- B. Surfaces to receive Plaster-Weld® MUST BE CLEAN, free from loose material, dust, dirt, oil, grease, wax, loose paint, mildew, rust, laitance or efflorescence.
- C. Form release agents, curing compounds, hardeners, and sealers must be compatible with Plaster-Weld®.

3.3 APPLICATION

- A. General Application of bonding agent: Apply Plaster-Weld® uniformly using brush roller, or spray to form a continuous pink film over the entire surface. Allow to dry one hour. (NOTE: Painted surfaces must be sound, washable and firmly adhered to the substrate.) Glossy painted surfaces should be dulled with an abrasive. Application of wallpaper to newly bonded plastered surfaces should be delayed until plaster is completely dry.
- B. Inspection of bonding agent: Prior to applying plaster, inspect bonding agent application to assure a continuous pink film over the entire bonding surface. Reapply Plaster-Weld® over areas not satisfactorily covered.

3.4 APPLICATION OF ONE-COAT PLASTER

- A. Apply a white skim coat of plaster 1/16 to 3/16 inch thick over Plaster-Weld® direct to concrete ceilings and other structural surfaces as shown and specified (the mixing, application and finishing of white coat shall be as specified for regular white finish coat).
- B. At contractor's option, Plaster-Weld® and a white skim coat of plaster may be applied on interior ceilings, walls, beams and columns in place of smooth or rubbed concrete surfaces as shown or specified. (NOTE: Plastering can begin immediately as soon as bonding agent is dry to the touch [allow 1 hour] or delayed a week to 10 days with no effect on bond.)

3.5 APPLICATION OF TWO AND THREE COAT PLASTER

- A. Apply scratch coat a minimum of 3/8 inch thick over Plaster-Weld® to surfaces as shown and specified. Allow to dry 24 hours (follow with two and three coat applications). (NOTE: Minimum drying time of 24 hours between coats is important to prevent moisture in second coat from penetrating the scratch coat and flooding the bond film.)

3.6 APPLICATION OF PATCH PLASTER OVER PLASTER-WELD®

- A. Follow work of other trades

3.7 COVERAGE

- A. 300 to 400 sq. ft. /gallon, approximately, depends upon method of application, temperatures, porosity and texture of the substrate.

END OF SECTION