

118 Primer/Admixture

BONSAL® 118 Primer/Admixture is a liquid copolymer used as a primer and admixture for cement based products.

FEATURES AND BENEFITS:

- Can be used as a Primer and Admixture
- Increases Bond Strength
- Bonds New Concrete to Old Concrete
- Horizontal, Vertical and Overhead Applications
- Interior or Exterior
- Above and Below Grade
- Water Resistant
- Improves Flexibility as an Admixture
- V.O.C. Compliant
- Improves Hydration and Curing
- Improves Workability
- Concentrated to Allow Greater Dilution

USES:

As a Primer **FOR**

- Self Leveling Products • Cement Based Repair Products
- Stucco • Cement Based Coatings • Tile Grouts
- Mortar • Concrete

As an Admixture **WITH**

- Cement Based Repair Products • Stucco • Plaster
- Cement Based Coatings • Tile Grouts • Mortar
- Concrete

For Use **OVER**

- Concrete • Mosaic Tile • Quarry Tile • Brick • Block
- Clay Products • Surface Bonding Cement • Stone
- Concrete Masonry • Scratch & Brown Coat • Stucco
- Finish Coat Stucco

PREPARATION:

Evaluation of the substrate by a qualified engineer, architect or contractor using means that determine the cause of deterioration is strongly recommended. Particular attention is to be given but not limited to chloride penetration, corrosion of steel galvanic activity, materials selection and compatibility, waterproofing, constructibility, quality assurance and methods of application and maintenance by the owner.

Clean area and remove all unsound concrete, grease, oil, paint, and any other foreign materials that will inhibit performance. Slick or sealed surfaces must be thoroughly roughened. Refer to:

- ASTM D 4258 Surface Cleaning Concrete for Coating
- ASTM D 4259 Abrading Concrete
- ASTM D 4260 Acid Etching Concrete
- ASTM D 4261 Surface Cleaning Concrete Unit Masonry for Coating

PREPARATION:

- ASTM D 4580 Measuring Delaminations in Concrete Bridge Decks by Sounding
- ACI 201.1R Guide for Making a Condition Survey of Concrete in Service
- ACI 201.3R Guide for Making a Condition Survey of Concrete Pavements

Make a test area and examine after several days. Before application, dampen the area and remove excess water.

MIXING:

Stir thoroughly.

As a Primer

Undiluted 118 Primer/Admixture must be used to meet ASTM C 1059 Type I - Type II and ASTM C 932 performance requirements. 118 Primer/Admixture diluted with 1:1 water, may be used on sound substrates.

As an Admixture

118 Primer/Admixture may be diluted as follows.

Minimum 118 Primer/Admixture to Water Dilution:

Stucco	1:3
Concrete Repair Materials	1:3
Plaster	1:3
Surface Bonding Cements	1:3
Scratch and Brown Coats	1:3
Cement Paints	1:3
Mortar Mixes	1:2
Sand Mixes	1:2
Concrete Mixes	1:1
Slurry Coats	1:1

More concentrated dilutions may be required. A test area is recommended.

PLACEMENT:

Placement Temperature

	Minimum	Maximum
Substrate	45°F (7°C)	90°F (32.2°C)
Mix	45°F (7°C)	90°F (32.2°C)
Air	45°F (7°C)	90°F (32.2°C)

- Remove standing water and apply with brush, roller, or broom leaving a thin uniform coating 4 - 6 wet mils thick depending on texture of substrate.
- Protect from moisture until cement based coating has been applied.
- For more detailed information on using 118 Primer/Admixture with other BONSAL® products, consult specific BONSAL product literature.

PLACEMENT (Cont.):

Note: A thin uniform application will perform better than a thick film, which forms a soft rubbery surface resulting in cracking of the new material.

CURING:

Allow to dry 1 - 3 hours to a clear film before application of the new material. High humidity, cool temperature and non-absorptive substrates may extend time necessary to dry to a clear film. The primer application must not be allowed to dry longer than 24 hours. Longer drying times will reduce the bond strength.

Reapply 118 Primer/Admixture if permitted to dry beyond 24 hours or subjected to moisture prior to applying cementitious product. Protect from water, rain, condensation and freezing until new material has been applied.

TECHNICAL DATA:

Shear Bond ASTM C 1059 over Cured Concrete

Type I Bond Strength	490 psi	(3.4 MPa)
Type II Bond Strength	1360 psi	(9.4 MPa)

Tensile Strength ASTM C 932

7 day air	245 psi	(1.7 MPa)
7 day wet	193 psi	(1.3 MPa)

LIMITATIONS:

- **DO NOT** apply when air or substrate temperature is below 45°F (7°C) or above 90°F (32.2°C).
- **DO NOT** allow to accumulate in puddles.
- **DO NOT** use more water than is recommended or bond will be reduced.
- **DO NOT** use high speed mixing equipment.
- **DO NOT** expose to high winds and low humidity.
- **DO NOT** rewet or allow to freeze prior to application of the new material.
- **DO NOT** apply over substrates with curing compounds, efflorescence or form release oil.
- **DO NOT** apply over substrates that are frozen or contain frost.
- **DO NOT** store below 40°F (4.5°C) or above 90°F (32.2°C).

LIMITATIONS (Cont.):

- **DO NOT** allow to freeze.
- **DO NOT** reuse empty container. Recycle or dispose of properly.

COLOR:

Clear, Colorless. May be tinted to comply with ASTM C 932 requirements.

COVERAGE:

Depends upon porosity and texture of the substrate.

As a Primer	4 wet mils	6 wet mils
Undiluted (1 gal.)	400 sq. ft. (36.8 M ²)	250 sq. ft. (23 M ²)
Diluted 1:1 (2 gal.)	800 sq. ft. (73.6 M ²)	500 sq. ft. (46 M ²)

PACKAGING:

1 quart/.94 liters plastic container (6/case)
1 gallon/3.78 liters plastic container (4/case)
5 gallon/18.9 liters pail
55 gallon/208.1 liters drum

SHELF LIFE:

One year from date of manufacture.

PROTECT FROM FREEZING

CAUTION: Contains Polyvinyl Alcohol and Ethylene Vinyl Acetate in emulsion. Do not take internally. Avoid contact with eyes. In case of contact, flush thoroughly with clean water for at least 15 minutes and get prompt medical attention. Empty container may be hazardous to children.

KEEP OUT OF REACH OF CHILDREN.

Technical Assistance

Charlotte, NC
(800) 334-0784

LIMITED WARRANTY: W.R. Bonsal Company ("Bonsal") warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Bonsal will replace any product or part which proves defective due to quality of ingredients used or due to the manufacturing process itself. This Warranty shall apply only if the product is used in strict accordance with applicable specifications and instructions provided by Bonsal for its use, and Bonsal shall not be liable otherwise. Replacement of any defective product, or, at Bonsal's option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Bonsal shall in no event be liable for any damages in excess of the purchase price of the defective product. **BONSAL SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES.**

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RES Architectural Sales, Inc.

143 S. Franklin St., Chagrin Falls, OH 44022 • Phone: 440-247-4070 • Fax 440-247-4069
Website: www.resarch.com • Email: sales@resarch.com