

BONSAL® Aqua Flex is an easy to apply liquid latex polymer which can be used either as waterproofing underlay or as part of a crack isolation system. BONSAL Aqua Flex can be applied to dry concrete by brush, paint, roller, trowel or spray equipment.

FEATURES AND BENEFITS

- Waterproofing Concrete and Masonry
- Crack Isolation
- Premixed and ready to use

USES:

- As an underlay waterproofing membrane
- As a crack isolation membrane

Safety Procedures:

Read and understand the Material Safety Data Sheet (MSDS) before using this product. **KEEP OUT OF REACH OF CHILDREN**

PREPARATION:

The substrate must be dry, clean, sound and dimensionally stable. It must be free from loose particles, wax, sealers, curing compounds, grease, efflorescence, or any foreign material that would inhibit bonding. Concrete floors must be cured a minimum of 28 days and have a fine broom finish. Temperatures should be between 40 °F (4° C) to 90 °F(32° C) 24 hours before and for 72 hours after application.

APPLICATION:

BONSAL Aqua Flex should not be applied under wet conditions or where these conditions are likely to occur before the membrane has fully dried. A test area for adhesion to various substrates should be done prior to starting a job. BONSAL Aqua Flex can be applied by brush, roller, airless sprayer or trowel. If applied by trowel, use a V-notch trowel to apply, then flatten out the ridges with the smooth side of the trowel.

The thickness of the dried membrane depends on the application requirements and method of application. For a single dry coat thickness of more than 30 mil, it is recommended that the membrane be applied by airless spray. If airless spray is used, single dry coat thicknesses of up to approximately 90 mil can be obtained. Test the mil thickness periodically with a mil gauge.

APPLICATION (Cont.):

If two coats are being applied, it is recommended that the coats be applied at right angles to each other. Before applying the second coat, it is necessary to let the first coat dry to the touch. The drying time may vary between coats due to the environmental conditions, but it should take approximately 1 hour. The second coat should be applied within 24 hours after the first application.

BONSAL Aqua Flex is not designed for use as a wear surface or finished floor. The final wear surface (ceramic tile, stone, concrete, stucco, etc.) should be installed 24 hours after the second coat of BONSAL Aqua Flex has dried.

When air spray application is used, the following guidelines should be maintained:

1. Compression ratio of 28:1
2. Tip size of .025" and a fan of 8"

Crack Isolation: Apply a coat of BONSAL Aqua Flex a minimum of 30 mils thick over the entire concrete floor. Over the cracked area, embed Glass Mesh Fabric into the wet Aqua Flex, being sure that the Aqua Flex is applied sufficiently so it is completely under the Glass Mesh Fabric. Apply a top application of the Aqua Flex covering the entire glass fabric.

Glass Mesh Reinforcing (for shower floors and reinforcement of corners and cracks):

Apply a coat of the BONSAL Aqua Flex a minimum of 30 mils thick over the area in which you are waterproofing. Embed the Glass Fabric into the wet Aqua Flex, being careful to assure that the mesh is in full contact with the Aqua Flex. A margin trowel or equivalent may be necessary to push glass mesh into the corners insuring full contact to the wet Aqua Flex and the substrate. Once the mesh has been installed, apply a sufficient amount of the BONSAL Aqua Flex over the mesh being sure to cover the mesh completely. It is not necessary for the first coat under the mesh to dry prior to applying the final coat. Allow to completely dry (approximately 4 hours), before applying ceramic tile. When applying glass mesh reinforcement to areas larger than 4' in width the mesh should be overlapped by 2" and sealed by applying the BONSAL Aqua Flex between the seams completely.

APPLICATION (Cont.):

Note: It is the user's responsibility to test for waterproofness prior to applying finished surface. Additional coats of Aqua Flex can be applied if necessary.

REMINDERS:

1. Do not apply BONSAL Aqua Flex to a frozen or frosted surface. BONSAL Aqua Flex should not be applied over substrates that are below 40° F (4° C) or above 90° F (32° C), and cannot be exposed to freezing or rain conditions for 24 hours or once completely dried throughout.
2. Do not apply over surfaces that are not properly prepared.
3. Do not apply over surfaces that are not recommended by Bonsal American.
4. When using a second coat of BONSAL Aqua Flex, the second coat must be applied within 24 hours of the first coat's application.
5. BONSAL Aqua Flex must be covered with a wear surface.

TECHNICAL DATA: Typical Values

	ANSI A.118.10	BONSAL Aqua Flex
Shear Strength 7 day	>50 psi	200 psi
Water Immersion 7 day 4 week 12 week	>50 psi >50 psi >50 psi	150 psi 350 psi 390 psi
Fungus&Micro Organism	Membrane shall not support mold growth	Passes
Seam Strength	8 lb./in. width min.	10.2 lb./in. width
Breaking Strength	Minimum 170 psi	400 psi
Damp-Proofness	No visible water penetration after 48 hr.	Passes
Permeability	ASTM E 96	.013
Water Vapor Transmission	ASTM E 96	.085
Hydrostatic Resistance	ASTM D 751 Procedure B	Pass
Elongation	ASTM D 638	600%

LIMITATIONS:

- BONSAL Aqua Flex is not recommended as a primary roofing membrane over occupied space.
- Unprotected membrane should not be directly exposed to sun or weather.
- BONSAL Aqua Flex is not recommended where exposed to negative hydrostatic pressure.
- Membrane must be covered with tile, stone, concrete or other protective surfacing.
- BONSAL Aqua Flex is not for use over expansion joints, control joints, or structural movement cracks.

It is the user's responsibility to perform a flood test where required. Allow BONSAL Aqua Flex to cure 24 hours or once completely dried throughout prior to flood test.

ESTIMATED COVERAGE:

Approximately 40 sq. ft. (3.7 sq. m) per gallon at 30 mils (two coat application)

PACKAGING:

3.5 gallon (13.2 L)

SHELF LIFE:

One year from date of manufacture in the original container in a cool, dry storage area and protected from freezing conditions.

WARNING: VAPORS MAY CAUSE IRRITATION OF SKIN, EYES AND THROAT

May cause skin sensitization or other allergic responses. Harmful if swallowed. Do not breathe vapors. Use with adequate ventilation. Wash thoroughly after handling. Close container after each use. Do not transfer to unmarked container.

. First aid. If swallowed drink one or two glasses of water to dilute. Do not induce vomiting unless directed to do so by medical personnel. Get immediate medical attention. In case of eye contact, flush eyes thoroughly with clean water for a minimum of 15 minutes and get prompt medical attention; for skin contact wash with soap and water. Read the MSDS prior to use.

For additional information call Bonsal American at 704-525-1621 or CHEMTREC at 800-424-9300 or 703-527-3887 outside of the USA.

Warning: If you scrape, sand or remove old paint, you may release lead dust. Lead is toxic. Exposure to lead dust can cause serious illness such as brain damage, especially in children. Wear a NIOSH approved respirator. Clean up carefully with a HEPA vacuum and a wet mop. Find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Warning Label 3: Liquid polymer products, Rev. 2004

Technical Service
1-800-334-0784

LIMITED 1 YEAR PRODUCT WARRANTY FROM DATE OF MANUFACTURE: Bonsal American warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Bonsal American 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 American for its use, and Bonsal American shall not be liable otherwise. Replacement of any defective product, or, at Bonsal American's option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Bonsal American shall in no event be liable for any damages in excess of the purchase price of the defective product. **BONSAL AMERICAN SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES.**

This Warranty constitutes the sole warranty given by Bonsal American in connection with this product, and Bonsal American has authorized no person to make or give any other warranties or representation, oral or written on its behalf. **IN PARTICULAR, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT EXCEPTION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No modification of this Warranty in favor of any buyer shall be valid unless given in writing and signed by an officer of Bonsal American.



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