

## On Site Treatments

BoraSol WP (Disodium Octaborate Tetrahydrate) can be mixed with BoraSol MC (An alkyl quaternary ammonium compound) for protection of indoor wood, wood products, and other hard surfaces that may require preventative or remedial treatment against mold or insect attack. Proper applications of BoraSol WP and BoraSol MC will prevent mold growth and insect infestation in new or existing construction. Existing structures that require remediation from mold resulted from floods or plumbing leaks or roofing/window leaks will require various clean-up methods before any preventative chemicals are applied.

Professional evaluation is recommended before starting any remediation work.

Flooded areas will require removal of wallboard and insulation in order to remove any dirt, mud and/or mold growth by scrubbing with a dilute (2%) bleach solution or plain clean water before allowing the wood framing to dry. Buildings with chronic damage from mold and wood rot that resulted from roof leaks and plumbing leaks will require structural renovation (replacement of rotted wood) before new insulation and finish drywall can be re-installed.

Crawl spaces must be treated after flooding. High humidity and lack of air circulation will promote mold growth on cinder or block foundation walls as well as all wood sill plates, joists and sheathing. All submersed surfaces should be cleaned with clean water and dried to less than 20% moisture content if possible before preventative materials are applied. Make certain that electrical service is turned off before cleaning or spraying of chemistry occurs.

All wall cavities should be cleaned and then treated with BoraSol-MC. Allow to dry before replacement wallboard is installed. Do not apply to any surfaces that can be used in the preparation of food.

### Mixing of the Preventative or Remedial Treatment Solution

1. Fill a clean mixing container with 3 quarts of water.
2. Add 1.5 lbs of BoraSol WP slowly while mixing (either by hand stirred paddle or electric driven impeller drill. Mix until solution is clear. (15% solution of BoraSol WP)
3. Carefully add 6.4 fl.oz. of BoraSol MC to the BoraSol WP solution and mix well.
4. Triple rinse the empty BoraSol MC container and add to the mixture.
5. Add clean water to bring the volume up to 1 gallon of volume. Mix well.
6. Transfer the working solution to a spray tank to use. OR use as is for brush application. This is a Solution of 15% BoraSol WP and 5% solution of BoraSol MC). Coverage is one gallon/200 sq.ft.

For New construction: A primary application of a 15% BoraSol WP solution alone is required for control of certain wood boring insects. (1.5 lbs BoraSol WP/gallon of water), one gallon of 15% BoraSol WP/ 200 sq. ft. of surface). This will provide 0.15 lbs/cu.ft (pcf) of DOT to the wood or 0.1 pcf B<sub>2</sub>O<sub>3</sub>. AWPA requires 0.17 pcf of B<sub>2</sub>O<sub>3</sub> for protection of wood from Subterranean Termites. Thus, a second treatment with 15% BoraSol WP is required. The second treatment of 15% BoraSol WP is to contain the BoraSol MC for mold control (as described above).

For protection wood from Formosan Termites , the AWWPA requires 0.28 pcf of  $B_2O_3$  to be loaded into the wood. Thus, two applications of 15% BoraSol WP and one application of 15% BoraSol WP with 5% BoraSol MC must be applied. The final coat provides the wood with the extra mold protection.

#### For Mold protection Only

1. Fill a clean mixing container with 3 quarts of water.
2. Carefully add 6.4 fl.oz. of BoraSol MC to the BoraSol WP solution and mix well.
3. Triple rinse the empty BoraSol MC container and add to the mixture.
4. Add clean water to bring the volume up to 1 gallon of volume. Mix well.
5. Transfer the working solution to a spray tank to use. OR use as is for brush application. This is a 5% solution of BoraSol MC.

Apply by spray or brush to wood and wood product surfaces (wood shingles, shake roofs, siding) concrete, sheetrock, wallboard, block and steel surfaces to the point of run-off. The porosity of each type of surface will determine the rate of coverage. Allow all surfaces to dry before applying siding, wallboard or flooring.

#### Personal Protection Equipment for BoraSol MC with or without BoraSol WP

Use eye protection, long sleeved shirt with long pants and chemical resistant gloves. Use a full faced respirator with a HEPA filter in confined spaces.