



FireWall™ 50 WP Performance Enhanced by TACTIC™ for Optimized Control of Citrus Canker in Florida Grapefruit – PRELIMINARY RESULTS

Technical Bulletin No. 10

Based on experience and research supporting its efficacy against citrus canker (*Xanthomonas citri* subsp. *citri*), **FireWall™ 50 WP** has been widely embraced as an effective part of a canker management program on Florida grapefruit under the provisions of a Specific Emergency Exemption (Section 18). Since citrus canker is such a serious threat, growers may seek to maximize efficacy by addition of a spray adjuvant. Recognizing this, AgroSource, in partnership with the USDA ARS Cooperative Research and Development Agreement (CRADA), initiated extensive research to investigate improving the systemic activity of FireWall 50 WP using various spray adjuvants.

Normally, at least 2-3 years of research are conducted and carefully reviewed before results are published. However, AgroSource understands the critical importance and value of any information indicating the efficacy of FireWall 50 WP against canker may be increased with the use of certain spray adjuvants. Therefore, AgroSource has decided to share preliminary results of screening trials (greenhouse and field) from testing a range of commonly used adjuvants with FireWall 50 WP. Of all adjuvants tested, TACTIC™ was found to greatly facilitate the uptake of the active ingredient in FireWall. Application rates of TACTIC ranged from 0.1% (12.5 oz./A) to 0.25% (32 oz./A) and FireWall 50 WP was applied at 11 oz./A with spray volumes of 100 – 125 gpa. Treatments consisted of both two and three applications of FireWall 50 WP + TACTIC, with the two application tests simulating the maximum number of applications allowed for FireWall 50 WP under the Section 18. **FireWall 50 WP plus TACTIC provided greater systemic incorporation of active ingredient thus implying greater efficacy of FireWall 50 WP vs. the canker pathogen.** In experimental trials on mature ‘Hamlin’ and ‘Valencia’ trees, Kocide® 3000 at 1 lb./A was included with FireWall 50 WP and TACTIC (at the same rates and spray volumes indicated above). No phytotoxicity symptoms were observed in either greenhouse or field trials.

Information herein reflects preliminary results from research by AgroSource/CRADA during the last year and is provided in good faith; individual results may vary from those conveyed here. Users will reach their own independent decisions about their disease management programs and draw their own conclusions about risks and rewards of using any given product. AgroSource, Inc. makes no guaranty, warranty, or representation, here or elsewhere, as to the actual uptake of FireWall 50 WP which may occur from combining it with TACTIC under any particular condition. Combinations of adjuvants, crop protection products (including copper), “nutritionals” and/or other materials in the same spray tank may result in adverse chemical properties affecting individual product performance and spraying such mixes on crops may result in loss of product performance and/or phytotoxic symptoms. As these and other factors – water quality for example – are beyond its control, AgroSource is not responsible for any adverse results from any tank mix combinations involving the use of FireWall 50 WP and TACTIC. If in doubt regarding tank mix compatibility, growers are advised to test tank mixes using a jar test or equivalent method and/or seek independent professional advice. All applicable directions, restrictions, and precautions on the EPA-registered label for FireWall 50 WP must be followed as well as those on the Section 18 label for FireWall 50 WP. Refer to the FireWall 50 WP Section 18 label for additional information and/or restrictions regarding its application to Florida grapefruit. Always read and follow label instructions. For more information about FireWall, please contact AgroSource at (908) 931-9001, email sales@agrosource.net or visit us on the web at www.agrosource.net.