

Greenaway Amenity Limited

MANUFACTURERS OF WEED CONTROL PRODUCTS

Eco-flex tech report

A common problem encountered in aquatic and vegetation management is the wash-off of treatments caused by rain, dew, spray mist or wakes from boats or you may spray a treatment only to have rainfall a few hours later wash the materials off the spray site. With the UK weather patterns changing products are needed to hold the treatment on the vegetation so that you can be sure of your results “rainfastness”.

Some herbicides, such as glyphosate, are highly water-soluble and are prone to be diluted off the foliage by rains, sprays or other types of irrigation. Other herbicides that are not so water-soluble may be formulated in a product that contains high amounts of solvent and surfactants to get the active ingredient to disperse. In situations such as these, rainfastness becomes an important factor of making the product stay on the vegetation that is being sprayed. Eco-flex has been formulated to allow maximum performance from your active chemicals but with minimum affect to the environment. Current technology in adjuvants uses primarily surfactants to aid the spreading, conditioning and coverage of the application. Since surfactants are soap-based chemistries, the addition of surfactants tends to wash treatments off the vegetation. The object is to keep the treatment on the leaves without sealing the stoma, so that the plant can continue its metabolism of the herbicide. Unlike with quick burn-down surfactants, which often shut the translocation of the herbicide (encouraging re-growth of the weed). Eco-flex stays on the surface of the vegetation without causing damage to the leaf structure. Since rapeseed oil contains organic nitrogen in the form of amino acids, the plant receives the nitrogen which stimulates the plants metabolism translocating the herbicide into the plant cellular physiology.

The ultra-low use rates of the Eco-flex (10 litres to the Ha when combined with the correct Active), means less bulk and storage for the user. This application rate also translates to less chemical load on the environment, as well as carrying less application volumes to the field.

Finally, the greatest benefit of the Eco-flex is helping insure weed control. To eliminate extended labor, fuel costs and chemical costs, the user wants to make sure that the treatment that is applied has the best chance in controlling weeds the first time that it is applied. The user does not want to have to re-treat an area because of rainfall, wash off or miss application.