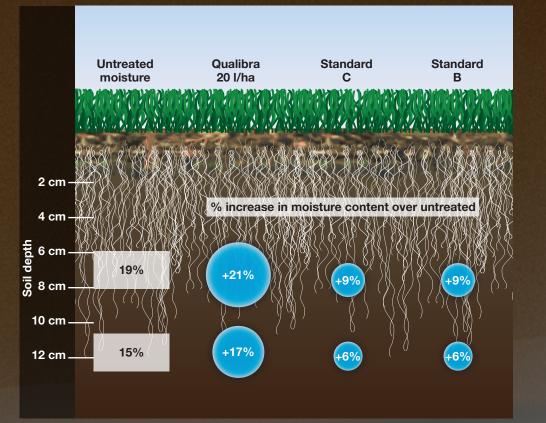
Qualibra holds moisture deeper and more effectively



Potential for more efficient irrigation

Further trials have shown that Qualibra treated soils retain moisture more effectively in the root zone and can make better use of irrigation resources.

After 10 mm irrigation on a hydrophobic dry soil core of a typical sand used in green construction, soil moisture content was 50% higher with Qualibra, compared to the average with existing wetting agents tested.

Qualibra returned the soil to optimum 15 – 20% moisture content after 19 mm of irrigation – over 25% better performance than other wetting agents. In fact, with some other wetting agents over 50% more irrigation would have been required to get the soil back to the desired moisture content.



Further studies have shown that on nonnydrophobic soils Qualibra facilitates good water movement and poses no risk of excess retention or water logging.

mproves irrigation efficiency leguires less water Holds soil water at optimum levels Retains root mass and



Application advice

- Commence applications preventatively from March
- Best performance comes from applications at 4 to 6 week intervals



Application volume 500 – 1000 l/ha

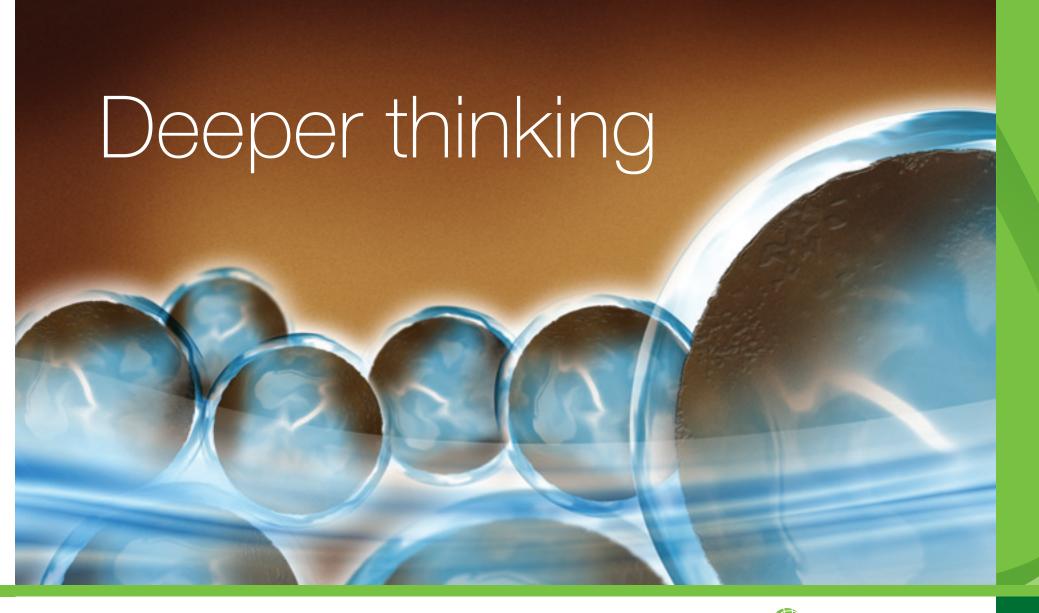
Irrigation after application 2 – 3 mm

Qualibra is an exciting new development in wetting agent technology:

- Quick water movement away from the soil surface
- Better moisture retention deep and evenly in the root zone

Qualibra can help turf managers to:

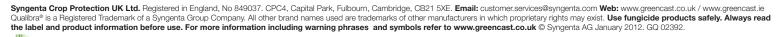
- Maintain plant health and playing surface quality
- Prevent damaging dry patch developing
- Make better use of irrigation resources
- Reduce effects of drought
- Retain healthy root mass









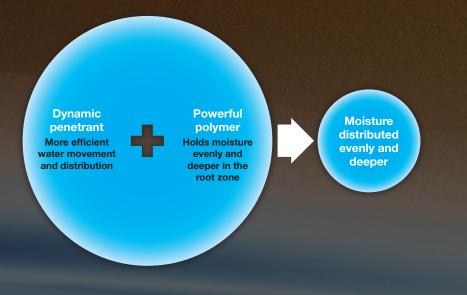


Introduction to Qualibra: Deeper Thinking

Qualibra is an exciting new concept in wetting agent technology. With Qualibra, water quickly moves away from the surface, and then is held more evenly and to greater depth within the root zone for better utilisation by turf plants.

Qualibra helps today's turf managers to:

- Maintain plant health and playing surface quality
- Prevent damaging dry patch developing
- Make better use of irrigation resources
- Retain healthy root mass



Growing pressures – Qualibra helps you deliver superior turf health and quality



Qualibra is a further advance in water management technology to help create consistently better quality turf that will enhance the playing experience.

What makes Qualibra more effective?

penetrant to move moisture, with a powerful small molecules designed to move water away prevent dry patch forming and invigorate root from the surface quickly, but not hold it – or large molecule block co-polymers, which hold water effectively but are not so effective at moving and distributing it through the root zone

Qualibra has been designed with the ability to quickly move water away from the surface – to retain firm playing surfaces – then hold moisture

Current classes of wetting agents Qualibra shows exceptional turf safety. Microscopy studies after Water movement and flow through profile still restricted Vater moves freely down profile but is not Penetrant Polymer significantly held in root zone by surface tension and water held in upper profile application have shown Qualibra has no adverse effect on the leaf wax layer. Qualibra rooting for quality Qualibra has been shown to encourage:

Water movement from surface

√ Water retention in soil profile



/Water movement from surface

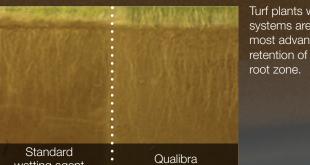
Water retention in soil profile

- Greater root mass
- Deeper roots
- Better root retention

Healthier root retention helps turf:

- Make better use of water resources rain and irrigation
- Utilise available nutrients more effectively
- Recover faster from periods of stress.
- Stronger plants maintain better playing surface quality throughout the season

Qualibra enhanced root development



Turf plants with stronger rooting systems are best placed to take most advantage of the better retention of soil moisture in the

The colour of health



The result of the turf safety and enhanced plant health has seen Qualibra treated turf retain green colour for longer under the most testing conditions. STRI visual appraisal of treated turf at The Royal Liverpool Golf Club, Hoylake, showed the colour of unirrigated fairway-type turf retained at 63% in mid-summer assessments, compared to an unacceptable 45% on untreated areas.

The science of wetting agent design and formulation

Now there's a way to effectively move water Actively alleviate hydrophobic issues Hold soil moisture deeper and more through the surface layer, whilst retaining evenly throughout the root zone crucial soil moisture in the root zone to maintain turf health. Syngenta formulation Retained water holding capacity for specialists engineered a new product up to six weeks

that combines the best attributes of both Achieve continuously high levels of performance between applications



penetrants and polymers.



