

# H<sub>2</sub>Flo™

## Wetting and Water Conservation Agent



## Product Information

**H<sub>2</sub>Flo** is a blend of soil surfactants which reduces the surface tension of irrigation water and allows both vertical and lateral movement of water.

H<sub>2</sub>Flo leads the way in water conservation products with the highest concentration of active ingredients (88%) of the most advanced wetting agents available. H<sub>2</sub>Flo allows growers and farmers to optimize the water use efficiency saving time and energy. H<sub>2</sub>Flo can be applied as an initial humectant and also during the normal irrigation cycle where it will also aid the movement of fertilizers throughout the soil and thus balancing the EC levels.

### Product characteristics

Dispersal:	Immediate
Substrate response:	Immediate
Longevity:	Up to 1 month depending on environmental factors & application rate
Packaging:	4 x 5 liter can
Product code:	0310.01.20

### Recommendations for use

H<sub>2</sub>Flo can be applied all year round, by drip, centre pivot and overhead irrigation. (If applied via a boom sprayer please consult your local ICL Specialty Fertilizers adviser or dealer). When using stock solution tanks, please fill them up and add H<sub>2</sub>Flo afterwards!

**Best performance:** in light - sandy soils, preferably containing >1.5% organic matter

### Application rate

Timing	Open field crops*	Covered crops, grown in	
		Soil	Substrate**
Pre planting or with the first irrigation / wetting up of growing media	2.4 litre/ha	2.4 litre/ha	0.2%
Monthly applications	1.2* litre/ha	-	0.1%
Weekly applications	0.3 litre/ha	0.3 litre/ha	

*\*the monthly applications can be split according to current irrigation schedule. For example, if fertilizers are applied once per week, H<sub>2</sub>Flo might be applied at the same time, at the rate of 0.3 liter/ha!*

*\*\* recommended concentrations refer to the stock solution tank.*

## Product advantages

- Water savings; H<sub>2</sub>Flo significantly reduces irrigation requirements, up to 25%\*
- Can be used in conjunction with fertilizers
- It's quickly absorbed by all type of growing media, especially substrates
- Is effective through the substrate and not just at the surface
- Excellent horizontal and vertical spreading and penetration characteristics
- Flexible application programmes and flexible water rates

*\*Proven in official trial stations*

## Trial case

### Trial set-up

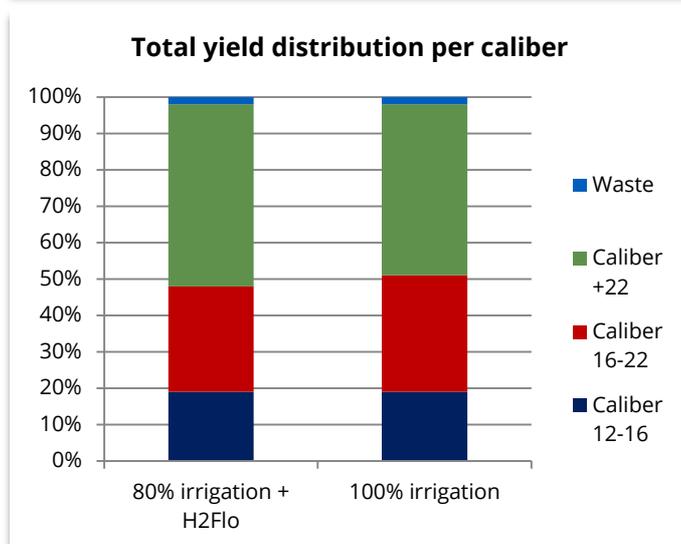
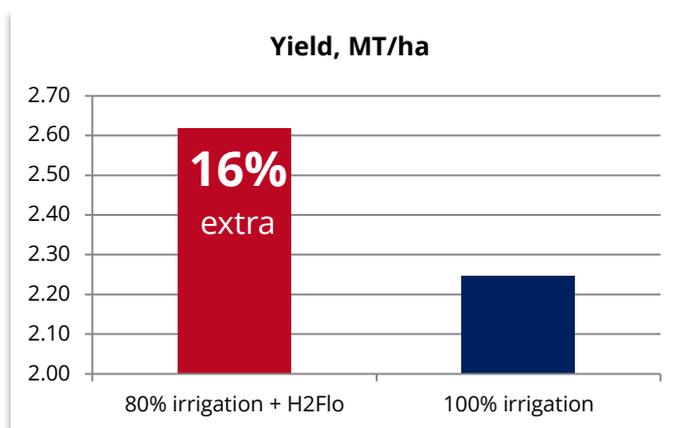
Objective:	Demonstrate that applying H <sub>2</sub> FLO will result in a reduction in irrigation volume while maintaining or increasing yield.
Location:	Official trial station, France
Crop:	Asparagus, variety Grolim – white
Application method:	Irrigation
Soil type:	Sandy soil
Assessments:	Total Yield Commercial yield Caliber distribution

### Treatments:

Grower practice	H <sub>2</sub> Flo
The water was supplied via irrigation system without the usage of any water conservation agents.	The addition of H2Flo in the irrigation system was done once a week, from June till October.
Treatment: - 100% irrigation	Treatment: - 80% irrigation + H2Flo
	Dosage of H2Flo: 1.2 ltr/ha with first irrigation and 0.15 ltr/ha for weekly application in the period mentioned above

Economic evaluation	80% irrigation + H <sub>2</sub> Flo	100% irrigation
Marketable yield, MT/ha	2.62	2.25
Gross income, €/ha	17,270	14,792
Extra cost of ICL treatment (vs. grower practice), €/ha	65	
Extra income/ha (vs. 100 % irrigation), €/ha	2,413	

### Results



## Conclusions

- By using H2Flo, the yield increased up to 16% compared to grower practice (100% irrigation) and reduced irrigation water by 20%
- The total yield increased, especially in the 22+ caliber
- H<sub>2</sub>Flo provided an extra income of 2,413 €/ha, compared to normal grower practice (100% irrigation), achieved only from extra yield. Reduced costs of less irrigation water, pump costs etc., are not included.

### Attention

Store the product in a cool, dry and ventilated place.

As circumstances can differ and as application of products is beyond our control, ICL Specialty Fertilizers cannot be held responsible for any negative results. With this publication, all previous given recommendations expire.

Before a new rate, product or application method is used, a small-scale trial is recommended.

H<sub>2</sub>Flo is biodegradable and is not hazardous to the environment.

Ask your local ICL Specialty Fertilizers dealer or the ICL Specialty Fertilizers representative in your country for more information or recommendations. Consult [www.icl-sf.com](http://www.icl-sf.com) for your contact in the region.

Distributed by:

**ICL Specialty Fertilizers**

P.O. Box 40 - 4190 CA Geldermalsen  
Koeweistraat 4 - 4181 CD Waardenburg  
The Netherlands

