

# MasterLife<sup>®</sup> 300D Admixture

## Comparison between MasterLife 300D and Hycrete

### Benefits

#### Hardened Concrete Properties:

- MasterLife 300D at 2.0% by mass of cement provides better performance when compared to Hycrete at the manufacturer's recommended dosage of 1 gallon per cubic yard of concrete, in terms of compressive strength and electrical conductance.
- MasterLife 300D and Hycrete have similar drying shrinkage.

#### Transport Properties:

- MasterLife 300D provides reduced electrical conductance compared to Hycrete.
- Capillary absorption was better for Hycrete, which is typical of water-repellent admixtures which are hydrophobic in nature.
- MasterLife 300D provides better performance compared to Hycrete with respect to water penetration, the property of relevance for applications where concrete is in continuous contact with water.

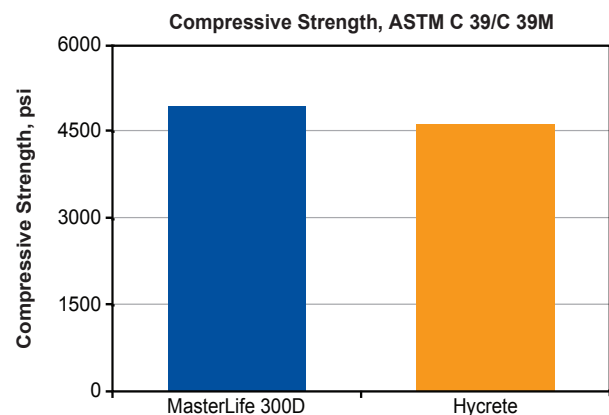
### Mixture Proportions

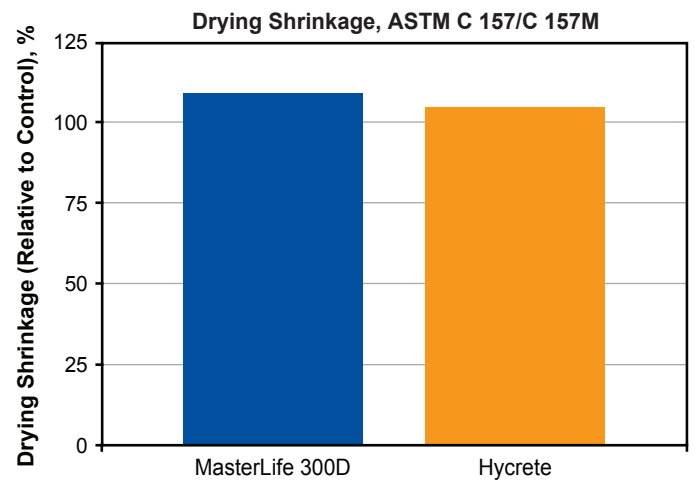
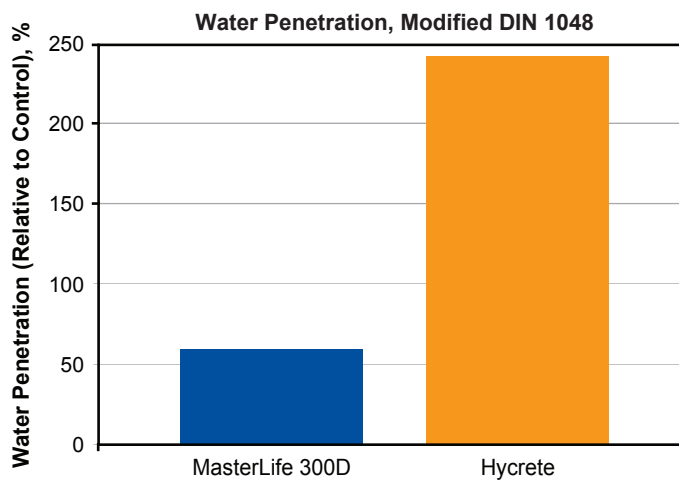
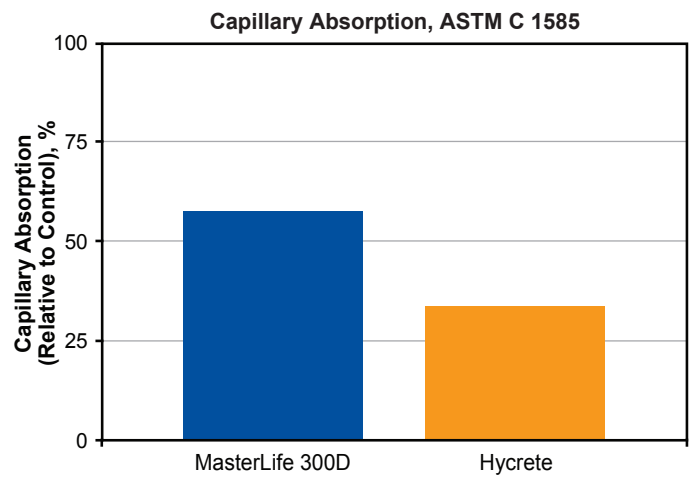
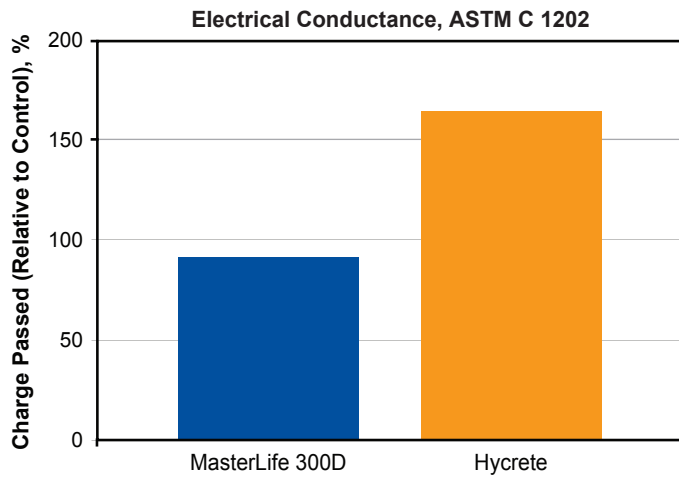
	Control	MasterLife 300D	Hycrete
Cement – Type I (lb/yd <sup>3</sup> )	635	635	635
w/cm	0.40	0.40	0.40

#### Admixture Dosage

MasterLife 300D, (lb per 100 lb of cement)	2.0
Hycrete, gal/yd <sup>3</sup>	1.0

The following data are from two separate evaluations using the same standard concrete mixture proportions. Hardened concrete tests were conducted at 28 days.





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