

# Microblend

**Solutions Inc.**

## Technology

Frequently Asked Question:  
When mixing a microfine or ultrafine slurry, what is the relationship between bleed or free water and slurry stability?

Increasing the water ratio of a grouting mix can help meet project goals. How does this increased water ratio change the resulting grout mix? When we view Figure 1 Base Slurry Curves (below), we see a direct relationship between water ratio and excess bleed or free water. You can control the bleed or free water (see picture in Figure 2) with low concentrations of polymers. These polymers aid in suspending the cementitious particles and culminate in slurry with a reduced final bleed. If we use a max bleed of 5% as a cutoff, then the water ratio can change from near 1:1 with no polymer to as high as 2:1 with polymer B loading a 100% change. This increased water ratio now improves performance and project economics.

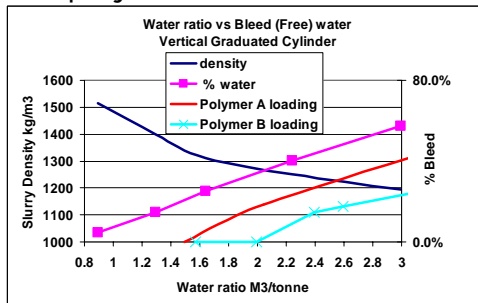


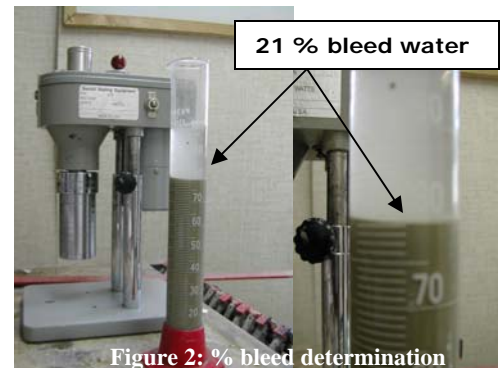
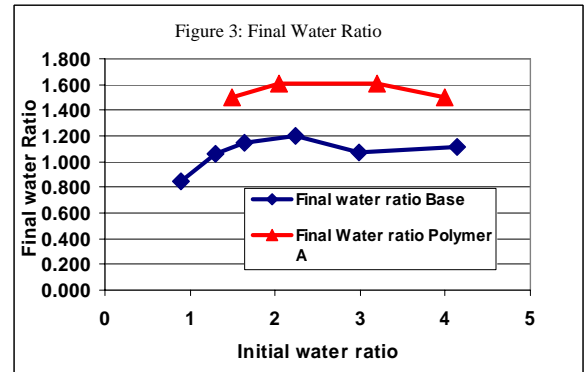
Figure 1: Base Slurry Curves

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## Interesting fact

As Figure 3 demonstrates, The final water ratio remains the same for a given cement/polymer ratio no matter what the starting water ratio (above minimum water).



## Coming Up

- Particle Size Distribution vs Blaine Fineness
- Free Water vs Borehole Deviation
- Tradeshow/Conference link:

<http://www.gulfpub.com>

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