



REDONIC

polysilicate binder
for investment casting

Redonic is a reactive, alkaline aqueous dispersion of polymeric silica specially formulated for use in the Buntrock Industries "QUICK-SET" Process. It is provided at optimum concentration for direct use and contains both wetting agent and antifoam and is color coded RED for easy process identification.

Using Redonic in the Quick-Set Process

Typical Redonic Back-Up Slurry Formulation

Redonic	300 lbs	30 gallons
Quick-Set Flour 150A	400 lbs	8 bags
Fused Silica 120/200	110 lbs	2 bags
Total	810 lbs	50 gallons

Target Viscosity: 10 - 12 seconds, Zahn #4

"QUICK-SET" Slurries are prepared just like colloidal silica slurries. Place binder in clean, water-rinsed mixing tank. With mixer running add refractory flours in portions that can be handled effectively by the mixer until an acceptable viscosity of about 15 seconds is reached. After thorough mixing to remove entrapped air (usually overnight) and to reach slurry equilibrium, a final viscosity adjustment is made by the addition of binder or flour, to thin or thicken as desired. Note that the formulation is to the nearest full bag of flour and will probably need some binder addition to reach desired viscosity.

Refer to the "Buntrock Quick-Set Shell for Steel Castings" document for complete details of the process.

Typical Physical Properties	
Color	Red
Consistency	Water-like liquid
Specific Gravity	1.20
Density, lbs/gal.	10.0
PH @ 25°C	11
Toxicity	Non Toxic, alkaline. See MSDS
Packaging	550 lb. Net wt. 55 gal. Drums

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