

MXC Boost Concentrate with Fiber

Formulations

Due to the unique nature of the product, the formulation implemented will vary from foundry to foundry. This flexibility allows the foundry to obtain the maximum number of benefits from MXC Boost concentrate with fiber.

For specific slurry formulations, please call our Technical Department at 800.800.7496 to discuss your specific application and to obtain the proper formulation to fit your needs.

Application Recommendations

1. Remix the MXC Boost concentrate with fiber prior to use to ensure a homogeneous blend of material.
2. For best results, weigh all ingredients when making up a new slurry or making additions to an existing slurry.
3. When building the slurry, add the refractory last. If more than one refractory is used, add the lowest density refractory first: fused silicas (2.2 g/cc), alumino silicates (2.7 g/cc), zircon (4.5 g/cc). Add refractory slowly for best results.
4. New and makeup slurries must be prepared with a propeller mixer, not in a rotating tank. This ensures proper dispersion of the refractory particles. The propeller mixer must be of adequate HP and RPM. Excessive mixing action can introduce air into the slurry and cause erratic viscosity and/or bubbles in the slurry coat.
5. As with any slurry, the viscosity of the slurry must be stable before use. A stable viscosity is one that does not change by more than 1 second when checked at 1 hour intervals. Viscosity can be increased by adding more refractory and decreased by adding more binder.
6. It is required to replace water lost to evaporation. When water is needed (based on test results for viscosity and/or binder solids), use distilled or deionized water as opposed to tap water, which can contain contaminants that can negatively affect slurry life.
7. Antifoam, wetting and bactericide agents are already formulated into MXC Boost concentrate with fiber and other additions may not be compatible. Contact R&R's technical team before making these additions to the slurry.

Slurry Control Procedures

Slurry Control Worksheets are available for download at www.ransom-randolph.com under resources. Slurry Control Worksheets allow you to input data directly and help you calculate values.



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Slurry Testing Frequency

R&R recommends running the following tests accordingly.

Slurry Test	Recommended Testing Frequency
Slurry Viscosity	Two Times Per Shift
Slurry Density	Weekly
Refractory Solids	Weekly
Binder Solids	Two Times Per Week
Binder pH	Weekly

Target Binder Solids Range

The target binder solids range for MXC Boost concentrate with fiber is 27.4%-29.4% by weight.

Specific Gravity	Binder Solids	Specific Gravity	Binder Solids	Specific Gravity	Binder Solids
1.132	25.2	1.146	27.4	1.160	29.7
1.133	25.4	1.147	27.6	1.161	29.8
1.134	25.6	1.148	27.8	1.162	30.0
1.135	25.7	1.149	27.9	1.163	30.1
1.136	25.9	1.150	28.1	1.164	30.3
1.137	26.0	1.151	28.2	1.165	30.4
1.138	26.2	1.152	28.4	1.166	30.6
1.139	26.3	1.153	28.6	1.167	30.8
1.140	26.5	1.154	28.7	1.168	30.9
1.141	26.7	1.155	28.9	1.169	31.1
1.142	26.8	1.156	29.0	1.170	31.2
1.143	27.0	1.157	29.2	1.171	31.4
1.144	27.1	1.158	29.3	1.172	31.5
1.145	27.3	1.159	29.5	1.173	31.7



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Safety

OSHA-approved respiratory protection should always be worn to avoid inhalation of respirable silica dust, which can result in an irreversible lung disease, silicosis. Such exposure includes slurry makeup, casting, knockout and cleanup. Refer to SDS for specific details.

Storage & Handling

Keep from freezing. MXC Boost concentrate with fiber must be maintained above 35 °F (2 °C) to prevent the material from precipitating irreversibly and making the product unsuitable for use. Binder stored in transparent or translucent containers should be sheltered from direct sunlight. Shelf life is 1 year from date (MMDDYY) in batch lot number on label. Rotate stock to maximize shelf life.

Technical Tips

For additional information and recommendations, refer to the Shell Building, Slurry Control, Autoclaving and FlashFire Dewax Method Technical Tips available for download at www.ransom-randolph.com under resources.

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