

Primcote® Binder

High Performance, Industry Leading Binder

Developed to optimize ceramic shell slurries, PRIMCOTE binder is the investment casting industry's leading colloidal silica based primary binder. PRIMCOTE binder was formulated to eliminate buckling, lifting and cracking of primary shell coats.

PRIMCOTE binder allows faster drying of primary coats with lower humidity and/or increased air circulation. Shell coats using PRIMCOTE binder can not be over dried as shell coats using standard colloidal silica can.

PRIMCOTE binder contains a wetting agent, an antifoam agent and a color indicator to monitor shell dryness, as well as several other proprietary ingredients. PRIMCOTE binder is compatible with conventional refractory materials and shell room equipment.

Whether casting simple or complicated parts, PRIMCOTE binder is the industry's primary binder of choice.

Typical Material Properties*

Base Composition	Colloidal Silica
Other Composition	Proprietary
Total Solids Content (Including SiO ₂)	30.0%/weight
Particle Size (Approximate)	10 nm
pH at 77 °F (25 °C)	10.6
Specific Gravity	1.18
Weight / Volume	9.85 lbs/gal (1.18 kg/l)
Na ₂ O Content (Weight)	0.48%
Particle Charge	Negative
Color with ReDip™ indicator	Greenish Yellow
Color with REDIP indicator	Milky White

*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

PRODUCT DATA SHEET



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