

MASTIC 85C

REPAIR AND JOINT FILLING MATERIAL FOR MOLTEN ALUMINIUM APPLICATIONS

Mastic 85C is a durable refractory mastic designed for joint filling and precast refractory shape patching. It can be applied by hand or trowel and dries to a strong, hard, erosion resistant surface.

PHYSICAL PROPERTIES

Property	Value
Wet Density–kg/m ³ (lb/ft ³)	1400 (87.40)
Fired Density–kg/m ³ (lb/ft ³) at 750°C (°F)	850 (53.06)
Linear Shrinkage– Dried 24 hours at 120°C (248°F) Fired 24 hours at 750°C (1382°F) Fired 24 hours at 1000°C (1832°F)	0.14% -0.25% 2.52%
Modulus of Rupture–MPa (psi) Dried 24 hours at 120°C (248°F) Fired 24 hours at 750°C (1382°F)	2.36 (342.29) 1.05 (152.29)
Maximum Continuous Service Temperature	875°C (1607°F)
Loss on Ignition at 1000°C (1832°F)	5.54%
72 Hour Cup Test– 7075 Alloy at 815°C (1500°F)	No reaction/excellent, non-wetting, slight adhesion
Bonding Strength*–MPa (psi) at 120°C (248°F)	1.16 (168.24)
Solids Content	53.50%
Thermal Conductivity– W/m-K (BTU-in/ft ² -hr-°F) at 200°C (392°F) at 400°C (752°F) at 650°C (1202°F)	0.17 (1.18) 0.21 (1.46) 0.27 (1.87)
*ASTM C-198-02 testing	

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APPLICATIONS

- Joining or patching precast refractory shapes
- Launder or ladle linings
- Casting table precast refractory shapes
- Gravity casting risers
- Transfer ladle linings
- RFM® ladles

BENEFITS

- Non-wetting to molten aluminium, zinc and magnesium
- Spreads easily and finishes smoothly
- Exhibits low shrinkage which reduces joint maintenance and metal penetration
- Forms secure bonds with all standard refractory materials
- Formulated with anti-freezing protectant to prevent damage during transport

AVAILABILITY

- 5 kg (11 lb) buckets
- 4 buckets per box

STORAGE

- Six month shelf life from date of manufacture under proper conditions
- Store in a cool, dry place at temperatures between 4–32°C (39–90°F)
- Seal after opening to avoid drying and curing

