



# MASTIC 85

## REFRACTORY CERAMIC FIBRE (RCF) JOINT AND PATCHING COMPOUND

Mastic 85 is a durable refractory mastic for launder fabrication and joining, repairing and patching precast refractory shapes. It can be applied by hand, caulk gun or trowel, and dries to form a strong, hard and erosion resistant surface.

### BENEFITS

- Non-wetting to molten aluminium, magnesium and zinc
- Spreads easily and finishes smoothly
- Low thermal shrink reduces joint maintenance and metal penetration
- Forms secure bonds with all standard refractory materials

### PHYSICAL PROPERTIES

Property	Value
Wet Density – g/cm <sup>3</sup> (lb/ft <sup>3</sup> )	1.45 (90.5)
Fired Density – g/cm <sup>3</sup> (lb/ft <sup>3</sup> )	0.88 (55.2)
Percent Solids (%)	61.0
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)	<0.50% <0.50% <2.50%
Modulus of Rupture–MPa (psi) Dried 24 hours at 120°C (248°F) Fired 24 hours at 750°C (1382°F)	2.34 (339.39) 1.20 (174.05)
Maximum Continuous Service Temperature	900°C (1652°F)
Loss on Ignition at 1000°C (1832°F)	4.30%
7075 Alloy Cup Test– 72 hours at 815°C (1500°F)	No reaction/ excellent, non- wetting, no adhesion
Bonding Strength–MPa (psi) Dried 24 hours at 110°C (230°F)	1.16 (168.6)
Thermal Conductivity– W/m-K (BTU-in/ft <sup>2</sup> -hr-°F) at 200°C (392°F) at 400°C (752°F) at 650°C (1202°F)	0.17 (1.18) 0.18 (1.25) 0.21 (1.46)



### APPLICATIONS

- Refractory cracks
- Door jambs
- Billet hot top basins
- High-temperature sealing applications
- Refractory trough lining joints
- Cathode collector bar sealing

### AVAILABILITY

Please check with your Pyrotek Sales Engineer regarding packaging options in your region. In general, the following packaging options are available:

- 1 gallon (4L) pails
- 5 gallon (19L) pails
- 10.3oz (305 mL) caulking tubes

### STORAGE AND TRANSPORTATION

- 12 month shelf life from the manufacture date when stored unopened in the original packaging at room temperature
- Avoid freezing temperatures during transportation and storage as the product could be rendered unusable if frozen

### HEALTH AND SAFETY

Prior to use, refer to the product safety datasheet for proper handling and required personal protective equipment.

