



MASTIC 85N

NON-REFRACTORY CERAMIC FIBRE (NON-RCF) JOINT PATCHING AND REPAIR COMPOUND

Mastic 85N is a durable refractory mastic for joining, repairing and patching precast refractory shapes. Its consistency allows for caulking, trowel, or hand forming applications. The product air dries to form a strong, hard and erosion resistant surface.

BENEFITS

- Non-wetting to liquid aluminium, magnesium and zinc
- Spreads easily and finishes smoothly
- Reduces joint maintenance and metal penetration
- Forms secure bonds with all basic refractory materials
- Excellent bond strength at elevated temperatures

PHYSICAL PROPERTIES

Property	Value
Wet Density–g/cm ³ (lb/ft ³)	0.90–0.95 (56–59)
Fired Density–g/cm ³ (lb/ft ³)	0.58–0.62 (36–39)
Permanent Linear Change–Shrinkage Dried for 24 hours at 120°C (248°F) Fired for 24 hours at 750°C (1382°F) Fired for 24 hours at 1000°C (1832°F)	<0.50% <0.50% <2.50%
Modulus of Rupture–MPa (psi) Dried for 24 hours at 120°C (248°F) Fired for 24 hours at 750°C (1382°F)	0.73 (105.88) 0.53 (76.87)
Percentage Loss on Ignition at 1000°C (1832°F)	4.76%
Bonding Strength to Calcium Silicate– MPa (psi) Dried for 24 hours at 120°C (248°F) Fired for 24 hours at 750°C (1382°F)	0.85 (123.28) 0.60 (87.02)
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)	0.13 (0.90) 0.14 (0.97) 0.16 (1.11)
Maximum Service Temperature	800°C (1472°F)



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

APPLICATIONS

- Refractory troughs
- Joining, repairing and patching of refractory shapes

STORAGE AND TRANSPORTATION

- Six 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 data sheet for proper handling and required personal protective equipment.

