

CAPPING CEMENT SPECIFICATION

Grade Name: K190/M

Applications:

High temperature grade for incandescent lamps up to 500 watts and high intensity discharge lamps upto 1000 watts with working temperatures upto 300°C.

Physical appearance:

Powder appearance: Fine off white powder
Paste appearance: Smooth light green coloured paste
Cured appearance: Light straw coloured expanded solid

Physical properties:

Solvent: ethanol (94%)
Powder:solvent ratio: 8.0 L/100Kg powder @ 23°C
Viscosity: 275 - 325 (+/- 5) 10ths/mm paste penetration @ 23°C
Powder density: not specified g/cm³ (tapped)
Paste density: 1.9 - 2.1 g/cm³
Average expansion: 110 - 130 %
Moisture resistance: good
Paste storage life: 2 weeks Stored in sealed containers @ 21°C
(Note - Higher temperatures reduce life)
Powder storage life: 6 months See below

The above properties are given for guidance purposes only. Individual customer requirements should be assessed prior to the use of cement. Technical assistance and test methods are available on request.

Health and Safety data sheets are available upon request

The information contained on this specification sheet is given in good faith and does not constitute a warranty or guarantee for the customer. Customers are advised to ensure that all products are thoroughly tested to ensure suitability for the intended application.

Capping cement information

Powder storage conditions

Keep containers tightly closed, store in a cool dry place out of direct sunlight. At 21°C a shelf life of 12 months is expected and at 30 °C a shelf life of 6 months is possible. However, temperatures higher than 30 °C and/or high humidity will further reduce shelf life, resulting in poor paste formation and may cause the powder to form lumps.

Recommended cleaning solvent:

Ethanol, isopropanol

Recommended mixing sequence:

1. Place alcohol in mixing vessel
2. Add half of powder
3. Mix for 5 minutes (mixing times vary)
4. Add remainder of powder
5. Mix for a further 15 minutes (mixing times vary)
6. Allow to stand for 1 hour before use

Recommended mixing machines:

Hobart
Winkworth
Z Blade type
Bowers Molteni

Recommended quantity of paste by cap type*: (for guidance only)

B22d	1.5 - 1.7 g
E27	1.6 - 1.8 g
B22d	1.2 - 1.4 g
E14	0.9 - 1.0 g
B15d	0.9 - 1.0 g
T8	0.8 - 1.2 g
T10	1.3 - 1.5 g
T12	1.6 - 2.0 g

Curing Parameters:

As cement curing is influenced by paste weight, curing temperature and time, precise figures cannot be given. For guidance purposes:

- 2 grams of paste @200°C will cure in 35 - 40 seconds
- 2 grams of paste @160°C will cure in 150 - 160 seconds

Prolonged exposure of curing cement to temperatures above 250°C should be avoided

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