

INSULCOAT 180FF AND 150FF COATING CEMENT

Insulcoat Coating Cements FF is a fibre free refractory material blended with inorganic additives to provide air setting refractory coatings or bonding agents. When dried, **Insulcoat Coating Cements FF** provides a hard surface which is highly resistant to erosion and flame abrasion.

Their insulating efficiency and inherent resistance to thermal shock helps prevent materials from spalling. Its resistance to sticking to many non-ferrous molten metals enables the cement to be used as a protective coating for a wide range of porous and non-porous materials.

Insulcoat Coating Cements FF have outstanding thermal reflectance properties which further increase the uses for these unique cements. When exposed to temperatures above 870°C, **Insulcoat Coating Cements FF** actually undergo an increase in strength due to the formation of a ceramic bond.

General characteristics

Insulcoat Coating Cements FF are mildly alkaline as based and are not soluble in water. They exhibit excellent chemical stability resisting attack from most corrosive agents. Exceptions are hydrofluoric and phosphoric acids and concentrated alkalis. **Insulcoat Coating Cements FF** contain a small amount of anti-freeze to guarantee storage during winter months.

Difference between the 180FF and 150FF coatings:

Insulcoat 180FF can be applied by brushing, rolling, dipping or spraying
Insulcoat 150FF a coating having a consistency suitable for trowelling

Typical physical properties.

Colour	: Off white / Grey / Black
Form	: Insulcoat 180FF – white paint Insulcoat 150FF – white paste
Wet density	: 1.72 g/cm ³
Solids content	: 70 %
Normal layer thickness	: 0.25-0.5 mm
Typical yield per 5 litres (1 layer)	: 14 m ² -7 m ²
Application method	: Brush, roller when packed in pails
Recommended temperature limit	: 1250°C

Typical applications

- Coating for moulds for high purity liquid metal and molten glass
- Oxidation barrier for aluminium dip tubes, cast iron thermocouple tubes and galvanising tanks
- Protective coating for molten aluminium distribution systems and associated implements
- Electrical insulation coating for core liners of induction furnaces
- Infrared radiating surface for heating elements
- Internal coating for automotive exhaust pipes
- Adhesive for ceramic parts
- Heat-Shields

Insulcon B.V. - The Netherlands - Tel: +31 (0) 167 565 750
Insulcon GmbH - Germany - Tel: +49 (0) 2131 408548-0
Keramab N.V. - Belgium - Tel: +32 (0) 3 711 02 78
Insulcon Projects S.A. - Switzerland - Tel: +41 (0) 919117390



www.insulcon.com / www.keramab.com

Form: C4-022
Effective: 29012021/AW/ka
Supersedes: 26052020/TW/ka
All Rights Reserved

INSULCOAT 180FF AND 150FF COATING CEMENT

Availability

Insulcoat Coating Cements FF are shipped from stock in 5 and 20 litre pails. Other sizes may be available upon request.

Shelf life

Approximately 12 months, based on unopened material kept in cool, dry storage conditions. Excessive heat will shorten shelf life and repeated freezing will damage the product. Storage between 5°C and 20°C is recommended.

Important notes

When applying Insulcoat Coating Cements FF with spray equipment, adequate ventilation must be ensured and precautions taken against inhalation of particles. No matter what method of application is used, best adhesion is obtained by roughening smooth surfaces before application. Oil and grease contaminated surfaces should be cleaned prior to application.