

INSULCOAT 180 FF AND 150 FF COATING CEMENT

Insulcoat Coating Cements FF is a fibre free ceramic material blended with inorganic additives to provide air setting refractory coatings or bonding agents. When dried, Insulcoat Coating Cements 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 have outstanding thermal reflectance properties which further increase the uses for these unique cements. When exposed to temperatures above 870°C, Insulcoat Coating Cements actually undergo an increase in strength due to the formation of a ceramic bond.

General characteristics

Insulcoat Coating Cements 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 contain a small amount of anti-freeze to guarantee storage during winter months.

INSULCOAT COATING CEMENT is an all purpose cement which resembles an off-white paint and is particularly suited for application with brush or roller when packed in pails.

Typical physical properties.

Colour	: Off white / Grey / Black
Form	: Paint
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

Availability

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

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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 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.