
Product Data

SILACOAT - Z

Silacoat Z is a zircon rich refractory coating supplied as powder to which clean water is added to form pastes and slurries. It has been developed to protect refractory and insulation products from the various effects that occur in high temperature furnace environments up to a maximum operating temperature of 1700°C.

BENEFITS

- Reduces the effects of thermal shock
- Resists high volatile gas attack
- Reduces spalling
- Reduces metal & slag adhesion
- Eliminates cracking

Installation Data

SURFACE PREPARATION:

All surfaces should be clean, free from dust and loose material and have a sound base.

Surfaces to be coated should be rough and free from glaze for ultimate adhesion. For porous surfaces pre-wet with water before applying.

MIXING:

Powder should be mixed with clean water in a clean pail and then left for a minimum of 2 hours before re-stirring prior to application. Stir thereafter every few minutes to maintain product homogeneity. Thinner mixes will require more frequent stirring during application to avoid settling out.

APPLICATION:

As a patching grade, a thick paste or mortar.

Water addition is approximately 10-12% by weight, 1 litre of water to 10 kg of powder.

Apply using trowels as for cement rendering or bricklaying to a maximum thickness of 3 - 6mm.

As a trowelling/spraying grade, a creamy paste for patching or spray.

Water addition is approximately 14-16% by weight, 1.5 litres of water to 10kg of powder but can be altered slightly to suit individual requirements of spray equipment. Continuous stirring is recommended during spraying, and equipment should be thoroughly cleaned after each spray session.

As a brushing/ spaying grade, as a slurry mix for washcoating.

Water addition is approximately 20-25% by weight, 2 litres of water to 10kg powder.

Where brushed washcoats are required apply to a thickness of 0.5mm with a block or large paint brush.

Total thickness should not exceed 3mm, but for thicker coatings ensure the previous coat is thoroughly dry.

COVERAGE:

For a 3mm coating thickness, you would require approximately 10kg / square meter.

Supplied in 25kg pails, packed 32 per pallet.

FIRING:

Allow sufficient air dry to remove excess moisture, and then raise temperature at a rate of 100 deg C per hour.

Typical Chemistry %

Al ₂ O ₃	SiO ₂	CaO+MgO	Fe ₂ O ₃	ZrO ₂	Alkalis
5.25%	37.5%	0.07%	0.25%	54.75%	0.5%

All data is compiled from routine testing and does not constitute a specification. Many of these products are based upon natural raw materials and variation will occur. Information is provided in good faith, and is subject to review whenever necessary. No guarantee or warranty is implied.
