

Boiler Plaster Datasheet

November 2017

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A fibrous insulation plaster with good adhesive properties. Suitable for use indoors and outdoors and does not pose a health risk since it is asbestos free and contains no hazardous materials. The workability enables a smooth, weather-resistant finish which can be painted after the plaster has dried.

Technical Data

Type	Fibre cement insulating plaster
Colour	Grey
Working time after mixing	1 hour
Initial set	1.5 hours
Abrasive resistant	Fair
Mixing water temperature	10°C
Application temperature (ambient)	6°C to 25°C
Substrate temperature	6°C to 25°C
Operating temperature	Up to 1000°C for short intervals
Thermal conductivity	W/(M°K) 0.6
Min application thickness	8mm per layer
Max application thickness	20mm per layer
Density	Dry - 1.3kg/litre Wet - 1.7kg/litre Cured - 1.3kg/litre
Protection barriers required	Wind and sun barriers (no contact with product)
Chemical properties (indicative) %	CaO 10.0, MgO 1.8, SiO ₂ 60.0, Fe ₂ O ₃ 2.0, Al ₂ O ₃ 23.0 K ₂ O 0.1, Lol 3.0

Purpose

To create an insulating layer around boilers.

Benefits

- Non-toxic.
- Good insulation properties.
- Slower setting times compared to conventional plaster thus allowing sufficient time for fine detailed work.
- Can be layered.

Specifying

"Apply Cemcrete Insulating **Boiler Plaster** in accordance with the manufacturer's instructions." Used typically where insulation is required.

Applications

The product can be sprayed, trowelled or applied by hand in special circumstances. The plaster can be applied over fibre insulation or other plaster, provided the substrate has been covered with wire mesh.

Cemcrete provides a comprehensive technical service based on over 3 decades of experience in the field of surface applications and cement technology. Cemcrete believes, to the best of its knowledge, that the information contained herein is true and accurate at the date of issuance and is subject to change without prior notice. For further clarification of these instructions, contact Cemcrete.

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Site Work

Storage

Can be stored in a dry cool shed away from direct sunlight off the floor on wooden slats for 6 months after date of invoice.

Weather

Do not apply to exteriors if rain is expected or if there is a risk of frost (below 5°C).

Application

Spraying

Add dry plaster to 50 - 60% by mass clean water and mix thoroughly. Spray the plaster onto the surface using a Putzmeister or Speidel type pump. Do not build the plaster too thick in a single pass. A thickness of 6mm per pass is recommended. If more than one coat is to be sprayed, scratch to roughen each coat and allow to dry before applying the next.

Plastering

Add dry plaster to 50 - 60% by mass clean water and mix thoroughly. Adjust the mix to the desired consistency by varying the water. Apply one or two coats of between 5 to 20 mm thick each. Scratch or roughen the first coat after application. Allow to dry before applying the second coat.

Note

Will not stick to plastic, rubber or gypsum plaster. The temperature of the FlexBond/water mixing liquid will have an effect on setting time.

Curing

Cure all completed work by damping with clean water 3 times during the day on the day following application. It is a good idea to cover the article with plastic during this initial curing period. Fast drying will cause surface cracking.

Sealing

Final surface can be protected from freeze thaw cycles treated by applying Cemcrete's Colour Hardener Sealer or Concrete Sealer in accordance with its datasheet. These articles would be suitable for outdoor use.

Safety

The use of protective clothing, goggles and dust masks is recommended even though **Boiler Plaster** is non-toxic.

- Skin contact: Wash thoroughly with soap and water.
- Eye contact: Flush immediately with water for 10 to 15 minutes and contact a physician.
- Respiratory problems: Remove affected person to fresh air immediately and contact a physician.
- Not for internal consumption.

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Coverage

1m²/40kg when applied 20mm thick.

Packaging

Available as a dry mix in 40 kg plastic bags.

Manufacturer's Warranty

Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

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