



SPEC

SPECIALITY ENGINEERING CHEMICALS

ENGINEERED SOLUTIONS

SpECcoat Firesafe Facade

FIRE RATED, ACRYLIC-MODIFIED MOISTURE BARRIER FOR FACADES

DESCRIPTION

SpECcoat Firesafe Facade is a two-component polymer modified cementitious coating. The product may be trowel, brush or spray applied to provide a flexible, fire resistant moisture barrier to facades.

TYPICAL USES

SpECcoat Firesafe Facade is used where there is a requirement to exclude water moisture from a building facade, while it is still breathable.

ADVANTAGES

- Fire resistant
- High bond strength to concrete and masonry
- Excellent flexibility
- Long pot life even at high temperatures

TECHNICAL INFORMATION

PROPERTIES	VALUES
Pot life @ 25°C	45 mins
Colour	Grey
Application temperature	+5°C to +45°C
Touch dry	2 - 5 hours
Full cure	28 days
Flame Spread Index (FSI) (ASTM E84-16)	10 Class A
Smoke Developed Index (SDI) (ASTM E84-16)	40 Class A
Water Vapour Transmission (ASTM E96)	0.02 g/m ² /hour
Solid content	95% by weight (Approximately 90% by volume)
Abrasion Resistance	Very Good

Note: SpECcoat Firesafe Facade meets the requirement of EN 13501-1 (A2-s1, d0). Certified by ESL and Approved by Dubai Civil Defense.



APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of SpECcoat Firesafe Facade.

The substrate must be clean and completely free from contaminants including grease, oil and loose material. Any repairs to the substrate should be carried out using SpECbuild cementitious repair mortars.

Mixing

SpECcoat Firesafe Facade is supplied as a two component pack consisting of a liquid component and a powder component.

The product cannot be mixed by hand.

The liquid should be poured into a 20 litre plastic or metal drum. The powder should be added slowly whilst mixing with a spiral paddle attachment on a slow speed electric drill. Mixing should continue until the product is lump free and for a minimum of 3 - 5 minutes.

Note: Both the components should be stored in a cool place prior to mixing, as it may reduce the potlife if kept at higher temperature.

Application

The prepared substrate should be dampened using a fine water spray. Care should be taken with porous substrates as more extensive pre-soaking will be required. Any free water on the surface should be removed immediately prior to applying SpECcoat Firesafe Facade.





While the substrate is damp but free from standing water, apply the mixed product by medium hard short bristle brush, trowel or roller checking that the first coat is at a wet film thickness of 0.40 - 0.60mm. The product should always be finished in one direction and never applied at a higher thickness in one coat.

The second coat should be applied as soon as the first coat is dry, normally after a minimum of 3 hours @ 25°C and longer at lower temperatures. This second coat should again be finished in one direction, 90° to the first coat, at WFT of 0.40 - 0.6mm.

The total thickness should be 0.80 to 1.20mm (0.72 to 1.08mm DFT)

CURING

Normally SpECcoat Firesafe Facade does not need to be cured, however, in hot conditions where there exists high air movement, protection against premature drying is essential.

EQUIPMENT CLEANING

Tools and equipment should be cleaned immediately using water as, on hardening, the material can only be removed mechanically.

PACKAGING & YIELD

SpECcoat Firesafe Facade is supplied in 15kg two part packs.

A complete mixed pack will cover approximately 15m² at 0.5mm WFT/coat depending on the substrate profile.

STORAGE & SHELF LIFE

When stored in a cool environment in original unopened containers, the material has a shelf life of 12 months.

HEALTH & SAFETY

SpECcoat Firesafe Facade contains alkalis and protection should be provided to prevent contact with skin and eyes. Inhalation of dust must be avoided whilst mixing. Gloves, goggles and a dust mask must be worn.

EYE CONTACT

Rinse with copious amounts of clean water and seek medical attention.

SKIN CONTACT

Rinse with copious amounts of clean water followed by thorough cleaning with soap and water.

DO NOT USE SOLVENTS.

FLAMMABILITY

SpECcoat Firesafe Facade is non flammable.

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If it is proven that the product does not perform as described in our TDS, SpEC's liability extends solely to the free replacement of product, once the claim has been accepted after due investigation by SpEC. SpEC will not entertain any claims involving any form of consequential costs or damages such as shipping costs, custom duties, damages to third parties, damages to structures, penalties from delay of a project or any other form of consequential damage.

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