

AMOTHERM[®] BRICK WB

Reactive fire-proofing system for concrete and brickwork

Rev. November 2019

Intumescent coating

Characteristics: intumescent coating based on vinyl polymers in an aqueous dispersion and specific reactive substances which, when exposed to the action of flames or the heat of a fire, generate a foam with heat-insulating properties.

Applications: special protective system to protect ordinary reinforced and pre-stressed concrete structures, brickwork walls, concrete blocks and masonry-concrete mix floors from fire.

Technical performance: the contribution made by the protective system to the fire-resistance classification is determined by the criteria of EN 13501-2, with a contribution to fire resistance and insulation of up to 240' (performance tested according to the type of treated structure under examination).

When applied, the intumescent coating looks like a normal water-based white paint and does not alter the look of the items or add weight to the geometry of the structural element to which it is applied.

Technical data

Components:	Single component
Colour:	White
Mass by volume:	1250-1350 g/l
Viscosity	Thixotropic
Dry residue in weight:	65 - 71 %
Dry residue in volume:	57 - 63 %
Recoatable:	6-8 hours with same product
Over-painting:	2-3 days from the last coat with topcoat
Storage:	at least 1 year in the original closed container at a temperature of >5 °C; PROTECT FROM FROST.
Packaging:	as per price list

The product application details were obtained in normal environmental conditions (temperature 20 °C and relative humidity 60%) and refer to an application of approx. 800 g/m². Application of different thicknesses and/or different environmental conditions may lead to considerable variations in the information given above.

How to apply

Detailed information about the use of AMOTHERM BRICK WB at all operative stages in the life cycle of the product, can be found on the Safety Data Sheet (SDS). Further information and instructions for applying the protective system can be found in the USER MANUAL. The technical documentation is available on the company website and can be downloaded at www.amonncolor.com

A summary of the standard operating conditions for the correct application of this intumescent coating is given below.

Surface preparation: the surface to be protected must be cured and dry and must not have any grease, dust, damp stains, mould or soot. When treating old or previously painted surfaces, prepare them carefully by sanding, brushing or pressure washing them. If there are several coats of old paint, first assess their thickness and adhesion.

Before applying the intumescent coating, check the integrity and consistency of the surface and treat with a coat of AMOTHERM PRIMER WB.

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Application quantity: the amount of intumescent coating to apply depends on the structural element to be protected and the technical performance required. Calculations of consumption rates can be requested with no obligation by writing to our Technical Department at ingass@amonncolor.com

Product preparation: mix the product well before use.

Dilution: the product is ready to use; dilute with a maximum of 5% water, do NOT exceed the recommended amounts.

Application: by airless spray, roller or brush.

Use an airless pump for spray application:

- Pneumatic pump with a minimum compression ratio of 30:1
- Electric pump with motor power of at least 1.9 KW
- Minimum pressure 150 bar, nozzle 0021"-0031", self-cleaning type, return hose 3/8", remove any filters (maximum quantity that can be applied in one coat: 800 - 1000 g/m² of product corresponds to a WFT of 600-800 micron).

As a general rule, approx. 400 g/m² of product can be applied in a single coat with a roller or brush.

We recommend working in a temperature of between +5 and +40 °C with relative humidity below 60%. Check there is sufficient ventilation to ensure the film applied is able to dry out thoroughly.

Tool cleaning: with water immediately after use.

Protective system:

Before applying the products, close all openings in the structures to keep the risk of the protective system being exposed to the elements to a minimum during application.

Make sure that the entire paint cycle is applied in favourable environmental conditions and that the various coats are not directly exposed to rain, mist or high humidity immediately after application.

No protective topcoat is needed when the system is applied indoors if there are no aggressive chemical agents; when a coloured finish is required, we recommend applying a coat of AMOTHERM BRICK TOP WB topcoat.

When the protective system is applied in environments subject to deterioration of a physical nature or where there are chemical pollutants, we recommend using a special protective topcoat.

When applied indoors where there may be condensation and high relative humidity and on semi-exposed elements (edge beams, basement windows, etc.), it is essential to apply a polyurethane topcoat suitable for outdoor use (for example AMOTHERM STEEL TOP PU SB). It is important to monitor the condition of the finish of these particular applications and, should it deteriorate, promptly restore protection.

We do not recommend using very thick surface finishing treatments (e.g. plastic wall coatings, plaster, etc.) which could interfere with the fire-expansion characteristics of the material or applying tiles, panels, slabs or other glued coverings which, in the case of fire, could jeopardise the underlying intumescent coating from generating the protective foam.

The instructions provided in this document are consistent with the most recently available information on the development and use of our product. Because we have no control over the onsite use and application of the product, we may only be held liable for the quality of the product as supplied.