

AMOTHERM® BRICK WSB

Transparent protective system for brick

Rev. September 2022

Transparent coating system consisting of an intumescent primer and protective topcoat

Characteristics: coating cycle consisting of an adhesion promotion primer, a base coat formulated with special resins 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 and a protective top coat based on acrylic resins in solvent solution.

Respectively both transparent adhesion promotion primer and protective top coat, must be compulsorily applied to ensure adhesion and ensure the integrity of the underlying layer,

Fields of use: specific protective system for fire protection of exposed brick structures placed indoors such as barrel vaults.

Technical performance: the coating system is classified:

- FIRE RESISTANCE:
Fire resistance test report conducted according to ISO 834 fire rating curve.

Technical data

Characteristics	PRIMER	TOPCOAT
Protective system:	AMOTHERM BRICK WSB	AMOTHERM TOP WSB
Components:	water-based single-component	solvent-based single-component
Colour:	transparent, colourless	transparent, colourless
Gloss:	---	satin gloss (57 - 63 GLOSS) dull matt (7 - 10 GLOSS)
Density:	1.35 +/- 0.05 g/cm ³	0.93 +/- 0.02 g/cm ³
Test viscosity:	Thixotropic	600 - 1000 mPas (BROOKFIELD)
Dry residue in weight:	64 – 66%	43 – 45%
Drying time:	<ul style="list-style-type: none"> ▪ touch dry 4 - 6 hours ▪ through-dry 24 – 48 hours 	<ul style="list-style-type: none"> ▪ touch dry 10 - 12 hours ▪ through-dry 24 – 36 hours
Recoatable:	after 6-12 hours with same product	---
Over-painting:	24 hours after application of the last coat	---
Storage:	at least 1 year in the original closed container at a temperature between 5°C and 35°C; PROTECT FROM FROST.	
Packaging:	as per price list	

The technical data given above refer to the results obtained for the transparent formula in the mate version. The product application details were obtained in normal environmental conditions (temperature 20 °C and relative humidity 60%) and refer to the application of a wet film of thickness 150 micron. Application of different thicknesses and/or in different environmental conditions may lead to considerable variations in the technical features given above.

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How to apply

Detailed information about the use of AMOTHERM BRICK WSB 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 product 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 system is given below.

Surface preparation: The brick substrate must be clean, dry and free of loose parts. In cases where artifacts are prepared by sandblasting, it is necessary to remove residual dust on the surface.

If water seepage or high ambient humidity is present, it is not possible to proceed with the application of the intumescent cycle.

Apply AMOTHERM PRIMER WB transparent fixative primer at a rate of 0.15 to 0.2 kg/m². The amount of primer varies with the degree of absorption of the substrate; with very porous bricks, application of the indicated amount in a double coat spaced 4 to 6 hours apart is suggested.

At least 12 h after the application of the primer, AMOTHERM BRICK WSB intumescent base coat can be applied.

Quantity to apply:

The cycle consists of:

- 0.1 - 0.2 kg/m² of AMOTHERM PRIMER WB transparent primer
- 1.2 kg/m² intumescent base AMOTHERM BRICK WSB
- 0.1 - 0.12 kg/m² of AMOTHERM WSB TOP top coat.

Product preparation: mix the products well before use.

Dilution: the products are ready to use.

Application: by conventional or airless spray, roller or brush. When applying the AMOTHERM BRICK WSB intumescent primer, normal consumption is approx. 300 - 400 g/m² of product per coat. Always leave at least 6 hours between coats. If the indicated amount per coat is exceeded, the product bleaches and loses transparency. We recommend working in an ambient and product temperature of at least 15°C with relative humidity below 60%. These conditions must be maintained for the duration of the treatment and until the paint is completely dry. Do not apply if it is raining or if there is mist or high humidity. If environmental conditions are unfavourable, the paint dries very slowly, and the surface may end up with a rubbery feel and a milky appearance.

After at least 24 hours from the last coat and when the paint is completely dry (SHORE A of the primer >50), apply 100 - 120 g/m² of AMOTHERM BRICK WSB TOP protective topcoat in one or two coats using a brush/roller or spray.

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METHOD	% dilution	pressure	nozzle
<i>Brush/roller</i>	---	---	---
<i>Airless spray*</i>	---	120 – 180 bar	0.011 - 0.015 inch

AMOTHERM BRICK WSB TOP

METHOD	% dilution	pressure	nozzle
<i>Brush/roller</i>	---	---	---
<i>Airless spray*</i>	---	120 – 180 bar	0.011 - 0.015 inch

* Use an airless pump for spray application:

- Pneumatic pump with a compression ratio of 30:1
- Electric pump with motor power of at least 1.9 KW

Tool cleaning: use water immediately after use for tools used with either primer or intumescent base coat; use STUFEX 003 thinner (or nitro thinner) for tools used with protective topcoat.

Warnings:

- Always mix the product thoroughly with a paddle mixer or stainless steel rod before using it.
- Applying more product per coat than indicated in this data sheet can cause problems, such as the varnish becoming cloudy or turning white, dripping, etc...
- The cycle is for indoor use.
- In the case of storage at higher temperature than the indicated limits, the finishing product AMOTHERM WSB TOP, may develop a thixotropic "false body" and appear thickened. The product after reconditioning with mechanical stirrer for at least 5 minutes resumes its normal appearance and the characteristics are not affected.

The instructions provided in this document represent the most recent state of the information, development and use of product. The application of the materials is out of our control and, therefore, we can only answer for the constant quality of the product supplied.