

AMOTHERM[®] STEEL TOP PU SB

Protective topcoat for fire-proofing systems

Rev. March 2021

Solvent-based polyurethane topcoat for reactive systems

Characteristics: dual-component solvent-based polyurethane protective topcoat.

Applications: topcoat for intumescent fire-proofing coating systems that has been specifically developed for the AMOTHERM STEEL / AMOTHERM BRICK / AMOTHERM CONCRETE paint systems. Suitable for outdoor applications, it provides excellent protection against damp and water. Protects the coating in particularly harsh atmospheres.

Technical data (*)

Paint coating:	Dual-component product
Colour:	RAL colours
Gloss:	Glossy (> 85 gloss)
Mass by volume:	1100 - 1200 g/l (intensive colours) / 1250 - 1350 g/l (light/pastel colours)
Test viscosity at time of inspection after Brookfield:	500 – 1000 mPa s G4 V50
Dry residue in weight:	65 - 70%
Mixing ratio:	4:1 in weight
Pot life:	2 hours
Drying time:	<ul style="list-style-type: none"> ▪ touch dry 4 hour ▪ through-dry 24 – 48 hours
Recoatable:	can be over-painted after at least 6 - 8 hours
Storage:	at least 1 year in the original closed container at a temperature of >5 °C.
Packaging:	as per price list

(*) The information given refers to the mixture of the two components

The technical data given above refer to the results obtained for the standard white formula. 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 with a thickness of 100 micron. Variations to the standard used, applications 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 STEEL TOP PU SB at all operative stages in the life cycle of the product, can be found in the Safety Data Sheet (SDS). Further information and instructions for applying the product 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 protective system is given below.

Surface preparation: the topcoat is applied when the underlying intumescent layer is completely dry: in normal temperature and humidity conditions (temperature 20 °C and relative humidity 60%) this is 48 - 72 hours after the last layer has been applied.

Application quantity: the recommended quantity is approx. 100-120 g/m² (80 micron of wet film corresponds to 50 micron of dry film).

Product preparation: prepare the product just before use by combining the two components and mixing them thoroughly. Use all the product within 4 hours of preparing it.

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Dilution: mix the base product and hardener in the proportions indicated; if necessary, dilute with a maximum of 15% polyurethane thinner.

Application: by spray or brush. As a general rule, 100 -120 g/m² of undiluted product are applied in a single coat.

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
- Pressure 160 bar, nozzle 0013"-0017", self-cleaning type, return hose 3/8"

Do not work in temperatures below 5 °C and when relative humidity is above 60%. Make sure the area is well-ventilated to ensure the film is able to dry out thoroughly. Do not apply if it is raining, windy or if there is mist, high humidity or in direct sunlight.

Tool cleaning: with Stufex 001 thinner or equivalent for polyurethane products immediately after use.

Summary of application conditions:

Conditions	Material	Surface	Environment	R.H. %
NORMAL	16-29 °C	16-29 °C	16-29 °C	40-60%
MINIMUM	10 °C	4 °C	4 °C	10%
MAXIMUM	38 °C	49 °C	35 °C	70%

Summary of drying times:

Surface temperature HR 50%	Recoating & handling	Final polymerisation
2 °C	18 hours	14 days
10 °C	8 hours	7 days
24 °C	4 hours	3 days
32 °C	1 hour	1 day

Notes:

Only apply when the temperature of the surface is at least 3 °C above the dew point.

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.