



FIRETEX® TOP SB

SOLVENT BASED PVC-AY TOPCOAT FOR FIRE PROTECTION COATINGS

Revised 07/2023 Issue 1

PRODUCT DESCRIPTION

FIRETEX® Top SB (RAL colour shades) and FIRETEX® Top SB EG (DB colour shades) are high build single pack topcoats specially designed for FIRETEX® and Unitherm® intumescent fire protection systems against humidity and mechanical strain.

The topcoats have no impact on the formation of the heat insulating foam of the intumescent coatings.

- No impact on the foaming reaction of intumescent coatings
- Applicable on all Unitherm® intumescent coating systems for steel
- Meets Type X classification (e.g. exterior conditions) as part of the coating system
- Simple application, does not increase static load
- Individual coloration possible with corresponding topcoat, various colour shades in RAL, others available

RECOMMENDED USE

Used as topcoat on fire protected structural steelwork and concrete for weathering and / or decorative reasons.

In special conditions, e.g. frequent formation of condensation and / or heating up of surfaces above + 45°C, adequate arrangements should be taken. In dry and clean conditions, topcoating with FIRETEX® Top WB on FIRETEX® and Unitherm® fire protection coatings may not be required.

PRODUCT TECHNICAL DATA

Volume Solids: 41 ± 2 %

Weight Solids: 60 ± 2 %

VOC: 507 g/l (488 g/l MIO shades) determined practically in accordance with Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).
488 g/l (469 g/l MIO shades) calculated from formulation to satisfy EC Solvent Emissions Directive.
375 g/kg (375 g/kg MIO shades) calculated from formulation to satisfy EC Solvent Emissions Directive (UK).

Colours: RAL colour shades, DB colour shades (MIO).
Others available on request.

Flash Point: + 38°C

Cleaner/Thinner: Unitherm® Thinner (for cleaning)
Thoroughly clean tools and equipment immediately after use.

Pack Size: Single component material:
13 kg (10 litre).
Volume will vary with density.

Density: FIRETEX® Top SB: 1.30 kg/l (colour shades in RAL)
FIRETEX® Top SB EG: 1.25 kg/l (DB colour shades containing MIO)
(may vary with colours)

Shelf Life: 18 months from date of manufacture, stored in originally sealed containers in a cool and dry environment - **Protect from frost.**

Recommended Application Methods:

Airless Spray, Brush and Roller

Typical Thickness:

Recommended Spreading Rate Per Coat

	Mio shade Typical	Mio-free shade Typical
Dry	60 µm	60 µm
Wet	100 µm	100 µm
Theoretical Consumption*	0.130kg/m ² 0.100 l/m ²	0.130kg/m ² 0.100 l/m ²
Theoretical Coverage*	7,69 m ² /kg 10,00 m ² /l	7,69 m ² /kg 10,00 m ² /l

* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment.



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AVERAGE DRYING TIMES

For 60 µm Dry Film Thickness:

	+ 20°C and 60% RH
Dry to touch	4 hours
Dry to handle	4 hours
To recoat	24 hours

A complete drying of the fire protection coating prior topcoat application is highly recommended.

Through-drying of the used FIRETEX® or Unitherm® intumescent coating can be checked by 'finger-nail-test'.

Final cure: Approx. 2 days after application at + 20°C object temperature and 60 % relative humidity.

These figures are given as a guide only. Factors such as air movement, film thickness and humidity must also be considered.

SURFACE PREPARATION

Prior application of the topcoat, the surface to be coated must be dry, clean and free from dirt, oil, grease or any other contamination.

MIXING

The material is supplied ready for use; stir thoroughly with a mechanical paint mixer prior to application.

During mixing and handling of the materials always wear protective goggles, suitable gloves and other protective clothings.

APPLICATION CONDITIONS

Substrate temperature shall be between + 5°C and + 40°C* and at least 3°C above the dew point.

Material temperature shall be above + 15°C

Relative air humidity shall be below 80%.

During application and drying of total FIRETEX® or Unitherm® intumescent coating system including FIRETEX® topcoats as well as transportation special protection measures must be taken against weathering.

Note: With critical situations e.g. frequent formation of condensation and / or heating up of surfaces above + 45°C, adequate arrangements should be taken.

* If higher temperatures occur, please consult Sherwin-Williams for further assistance.

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for satisfactory application characteristics. Always purge spray equipment before use with listed cleaner.

Airless Spray

Unit: Efficient airless equipment (pressure ratio > 30: 1)

Tip Size: 0.28 – 0.38 mm (0.011 – 0.015 inch)

Fan Angle: 40° - 80°

Operating Pressure: min. 200 bar (2900 psi)

Spray hoses: Ø 3/8 inch (10 mm), max. 20 m

+ 2 m with reduced Ø of 1/4 inch (6 mm)

Hoses must be used for water-based products only.

Material shall be applied undiluted.

The airless spray details given above are intended as a guide only.

Details such as fluid hose length and diameter, paint temperature and job shape and size all have an effect on the spray tip and operating pressure chosen. However, the operating pressure should be the lowest possible consistent satisfactory atomisation.

As conditions will vary from job to job, it is the applicators responsibility to ensure that the equipment in use has been set up to give the best results.

If in doubt consult Sherwin-Williams customer service.

Brush and Roller

- Material shall be applied undiluted
- Solvent resistant brush or roller must be used
- Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat

RECOMMENDED SYSTEMS

Steel

Surface and / or primer:

See corresponding product data sheet of the FIRETEX® or Unitherm® intumescent coating range

Intumescent coating:

FIRETEX® or Unitherm® intumescent coating for steel

Topcoat:

Interior use (Type Z1 / Z2):

1 x 60 µm FIRETEX® Top SB / FIRETEX® Top SB EG

Exterior use (Type X):

2 x 50 µm FIRETEX® Top SB / FIRETEX® Top SB EG

Galvanized steel

Interface:

Macropoxy® 2706 EG

Intumescent coating:

FIRETEX® or Unitherm® intumescent coating for steel

Topcoat:

Interior use (Type Z1 / Z2):

1 x 60 µm FIRETEX® Top SB / FIRETEX® Top SB EG

Exterior use (Type X):

2 x 50 µm FIRETEX® Top SB / FIRETEX® Top SB EG



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HEALTH & SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

WARRANTY

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