Protective & Marine Coatings
PRODUCT DATA SHEET

FIRETEX® TOP WB

WATER-BASED TOPCOAT FOR FIRE PROTECTION COATINGS

Revised 07/2023 Issue 1

PRODUCT DESCRIPTION

A 1-pack topcoat specially designed for FIRETEX®, Unitherm® and Pyroplast® intumescent fire protection systems against humidity and mechanical strain. It has no impact on the formation of the heat insulating foam of the intumescent coatings.

- Free of halogens and aromatic solvents
- Meets Type Z1 classification (e.g. internal conditions include temperatures till + 5°C and high humidity) as part of the coating system
- Complies with the highest sustainability requirements of DGNB (level 4) as part of the coating system

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®, Unitherm® and Pyroplast® fire protection coatings may not required.

PRODUCT TECHNICAL DATA

Volume Solids: 40 ± 2 % (ISO 3233-3)

Weight Solids: 52 ± 2 %

VOC: 0 g/l determined practically in accordance with Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).
31 g/l calculated from formulation to satisfy EC Solvent Emissions Directive.
25 g/kg calculated from formulation to satisfy EC Solvent Emissions Directive (UK).

Colours: RAL colour shades

Flash Point: Not applicable

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

Pack Size: Single component material:
11 kg (8.8 litre) and 3 litre (3,75 kg).
Volume will vary with density.

Density: 1.25 kg/l (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

	Typical
Dry	60 µm
Wet	115 µm
Theoretical Consumption*	0.144 kg/m² 0.115 l/m²
Theoretical Coverage*	6.93 m²/kg 8.67 m²/l

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

Due to an unleaded and unchromated pigment coating, a higher loading of 200 g/m² (0.160 l/m²) is required in several work steps to reach the designated opacity.

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AVERAGE DRYING TIMES

For 60 µm Dry Film Thickness:

	+ 20°C and 60% RH
Dry to touch	30 min
Dry to handle	6 hours
To recoat	6 hours

A complete drying of the fire protection coating prior topcoat application is highly recommended.
Through-drying of the used FIRETEX®, Unitherm® or Pyroplast® intumescent coating can be checked by 'finger-nail-test'.

Final cure: Approx. 24 h 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.

APPROVALS & ENDORSEMENTS

Sustainability:

- Complies with German AgBB and French VOC (A+) when uses as part of the coating system

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®, Unitherm® or Pyroplast® 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 (water).

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. 180 bar (2600 psi)
Spray hoses: Ø ¼ 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
- Load natural fine bristle brushes or short pile lambswool rollers are recommended

RECOMMENDED SYSTEMS

Steel
Surface and / or primer:
See corresponding product data sheet of the FIRETEX®, Unitherm® or Pyroplast® intumescent coating range

Intumescent coating:
FIRETEX®, Unitherm® or Pyroplast® intumescent coating for steel

Topcoat:
FIRETEX® Top WB

Galvanized steel
Interface:
Macropoxy® 2706 EG

Intumescent coating:
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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

Whilst all statements made about our products (whether in this data sheet or otherwise) are correct and accurate to the best of our knowledge, we have no control over the quality or the condition of the substrate, the application conditions or the many other factors affecting your use and application of our product.

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