

FOMTEC® Enviro SPX 1%

Fluorine free foam concentrate



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Fomtec Enviro SPX 1% is a fluorine free firefighting foam with no intentionally added fluorinated surfactants and polymers (PFAS).

Fomtec Enviro SPX 1% is especially designed to be an effective “fluorine-free” alternative for sprinkler systems used to fight fires in plastics and Class A materials.

- Fluorine free foam
- 100% biodegradable
- VdS (3896) approved for plastics
- Suitable for sprinkler use on Class A and plastics
- Excellent wetting capability



DESCRIPTION

Fomtec Enviro SPX 1% can be used at 1% with low expansion discharge devices and sprinkler systems. For use on class A type fires induction ratio of 0.1-1% is recommended, depending on the application and discharge device. Fomtec SPX 1% is a low viscous, Newtonian liquid and, easily pumped and proportioned.

APPLICATION

Fomtec Enviro SPX 1% is intended for use on class A fires such as wood, paper, textiles, etc, as well as fires in plastic materials. The product's ability to reduce the surface tension of water enables quick penetration into fibrous materials, enabling deep cooling that can lead to rapid fire suppression in class A materials. Class A foam will generate a stable foam capable of sticking to vertical surfaces, enabling protection against radiant heat. On plastics, the performance is proven through testing as per VdS 3896 when used at 1%.

Fomtec Enviro SPX 1% is especially suited whenever a non-fluorinated foam (no intentionally added PFAS) with high fire performance is required. Approved for use in sprinkler systems as per VdS 3896 using non-aspirating standard sprinklers. Suitable for mobile firefighting by use of aspirating or non-aspirating foam discharge devices such as foam branch-pipes, handline nozzles, and monitors, where application rates and technique can be adjusted to the specifics of each incident. Or in systems designed for use with the product based on recommended minimum application rates, application duration, and discharge devices.

Sprinkler applications of this product for suppression of fires in plastics materials shall follow design guidelines as specified in VdS 3214 standard.

FIRE PERFORMANCE & FOAMING

The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The design parameters depend on the type of system and application. The use of the product should follow design guidelines. The foaming properties depend on equipment used and other variables such as water and ambient temperatures. Average expansion 7:1, average ¼ drainage time 25:00 minutes using UNI 86 test nozzle.

EQUIPMENT

Fomtec Enviro SPX 1% can easily be proportioned at the correct dilution using conventional proportioning equipment. The equipment should be designed to the foam type. Fomtec Enviro SPX 1% should be used with approved sprinklers or foam discharge devices for optimal performance.

COMPATIBILITY

Fomtec Enviro SPX 1% can be used together with foam compatible powders and other expanded foams.

It is only intended for use with fresh water.

Fomtec Enviro SPX 1% concentrate should not be mixed with other foam concentrates.

For material compatibility please refer to Fomtec Technical Advices FTA 20 addressing the topic.

TYPICAL DATA

Appearance	Clear yellowish liquid
Specific gravity at 20°C	1,03 ± 0.01 g/ml
Viscosity	Newtonian
pH	6,5 to 8,5
Freezing point	-4°C
Recommended storage temperature	0 to 55°C
Suspended sediment (v/v)	Less than 0,2%

ENVIRONMENTAL

Fomtec Enviro SPX 1% is formulated using raw materials specially selected for their fire performance and their environmental profile. The product is formulated without the use of any intentionally added fluorinated surfactants, polymers, or other organohalogens. Fomtec Enviro SPX 1% is 100% biodegradable. The handling of spills of concentrate or foam solutions should, however, be undertaken according to local regulations. Normally, sewage systems can dispose of foam solution based on this type of foam concentrate, but local sewage operators should be consulted. Full details will be found in the Material Safety Datasheet (MSDS). For more detailed information please consult Fomtec Technical Advices FTA 40.

STORAGE / SHELF LIFE

Stored in original unbroken packaging the product will have a long shelf life. Shelf life in excess of 10 years will be found in temperate climates. As with all foams, shelf life will be dependent on storage temperatures and conditions. For storage recommendations and material compatibility please refer to our Fomtec Technical Advices FTA 10 addressing the topic.

INSPECTION/TESTING/ MAINTENANCE

The foam concentrate should be tested annually. The testing should be made by a suitable laboratory for analysis of foam concentrates and should measure: pH, specific gravity, expansion, drainage time. Storage containers should be inspected and reevaluated for the suitability of the storage location in regard to temperature fluctuations (temperature should be as stable as possible). Exposure to direct sunlight should be avoided.

PACKAGING

We supply this product in 25 litre or 5 US gallon cans, 200 litre or 55 US gallon drums, and 1000 litre or 265 US gallon IBC containers. Larger bulk supply is available against special request.

APPROVALS AND LISTINGS

- VdS 3896 non-aspirating sprinklers - *approval pending*

ENVIRO BY FOMTEC

The Fomtec Enviro range comprises an extensive range of non-PFAS based foams suitable for use Emergency Response missions and System applications. Enviro foam concentrates are available for class A, class B fire hazards and products are available for low, medium, and high expansion discharge devices.



enviro
by fomtec

Volume per piece	Packaging	Part no	Approx. shipping weight*	Dimensions (mm) L x W x H
25 ltr	Can	11-8000-01	26,95 kg	295 x 260 x441
200 ltr	Drum	11-8000-02	214,5 kg	581x 581 x 935
1000 ltr	Container	11-8000-04	1090 kg	1200 x1000 x1150
5 US gal.	Can	11-8000-00		295 x 260 x 441
55 US gal.	Drum	11-8000-03		581 x 581 x 935
265 US gal.	Container	11-8000-05		1200 x1000 x1150
Bulk	Special request			

* including packaging.