



POROFLEX® 3% F-15 #5351



AEROCONCRETE BUILDER

POROFLEX® 3% F-15 is a protein-based liquid foaming agent for production of lightweight building materials (e.g. cellular concrete) by foaming slurries of hydraulic binders (e.g. cement, hydraulic limes, trass, pozzolans, etc.).

Performance

POROFLEX® 3% F-15 results in an alkali-resistant, very dense, fine-bubbled and stable foam, which is well compatible with many hydraulic binders. The exceptional stability of the foam allows a very even dispersion of the air in the binder until it is completely set, thus allowing the production of homogeneous lightweight materials.

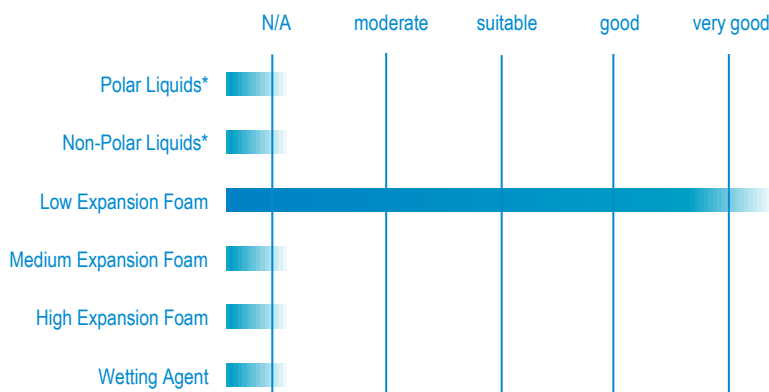
POROFLEX® 3% F-15 is easily and completely biodegradable and free of organic fluorine compounds*¹, preservatives and silicone compounds.

Technical Specification

Appearance	dark brown/dark brown/black
Fire Class/es	A + B
Lowest Use Temperature	-15 [°C]
Max. Storage Temperature	max. +50 [°C]
Specific Gravity (20°C)	1,150 ± 0,02 [g/ml]
pH value (20°C)	6,5 - 8,0
Viscosity (20°C)	< 30 [mm ² /sec]
Sedimentation	< 0,25 [%]

Foam Properties acc. to EN1568 at 20°C

Induction Rate	3%
Expansion Rate	—
25% Drainage Time	— [min]
50% Drainage Time	— [min]
Expansion Types	—



*as mentioned in the respective test standard or in the text

¹ We define fluorine-free as products that are manufactured without the intentional addition of fluoroorganic compounds for the purpose of improving performance in such a way that, according to currently commercially available analysis of PFAS in firefighting foam concentrates, they do not contain any quantity of fluoroorganic substances in excess of the ubiquitous regional background contamination (e.g. in the drinking water used for production).

Application

POROFLEX® 3% F-15 foam is produced with a suitable foaming generating device and is evenly introduced into the concrete by use of conventional mixers. Recommended mixture ratio: 60 - 80 g **POROFLEX® 3% F-15** per liter of water. Direct injection into the slurry with subsequent foaming is also possible. If necessary, the amount of foam or foaming agent added must then be adjusted on site according to the requirements of the material.

A slurry mixed with **POROFLEX® 3% F-15**-foam is pumpable, but depending on the bulk density of the slurry and the type of pump, a loss of expansion may occur.

Processing advice:

Lightweight cellular concrete made with **POROFLEX® 3% F-15** can be adjusted to different densities depending on the intended use:

POROFLEX® 3% F-15-screed: 1,000 - 2,000 kg/m³.

POROFLEX® 3% F-15-roof insulation: 400 - 900 kg/m³

POROFLEX® 3% F-15-insulating plaster: 600 - 1,000 kg/m³

POROFLEX® 3% F-15-molded parts, prefabricated parts, etc., depending on the intended use. In civil engineering **POROFLEX® 3% F-15** cellular concrete is used to produce lightweight, heat-insulating and leveling layers on ceilings and roofs for backfilling, and as a backfill material for underground tanks, sewers, manholes, etc. that are no longer in use.

Because proteins form sticky residues when they dry, all equipment (especially suction proportioners and foam tubes) should be thoroughly cleaned after contact with protein foam agents.

Ammonia odors may occur if used in strongly alkaline slurries.

Compatibility

Storage & Shelf Life

POROFLEX® 3% F-15 is not frost resistant and must be stored at temperatures between >0°C to a maximum of 45°C. Temperature should not exceed +50°C.

Before filling up stocks of our **POROFLEX® 3% F-15** we recommend to have a quality test of the stock to be filled up carried out in our laboratory.

Environment

POROFLEX® 3% F-15 is easily and completely biodegradable and free of organic fluorine compounds*¹, preservatives and silicone compounds.

The product itself, as well as solutions made from it, act as plant nutrients and promote growth, or new vegetation formation. Any release of the product and its solutions to natural waters must be avoided because of the risk of overfertilization/eutrophication.

Unused product (concentrate) must not be released into the environment. Disposal must be carried out in consultation with local authorities and specialised waste treatment companies.

Transport

POROFLEX® 3% F-15 is available in the following packaging units: PE-canister (20 ltr, 25 ltr and 60 ltr), PE-canister according to DIN 14452 (20 ltr); PE-drum (200 ltr), PE-IBC (600 ltr und 1.000 ltr) or bulk.



For further Documentation please scan the Qr code or see <http://sthamer.de/qr/5351>



Safety Advice: Please bear in mind that foam solutions are electroconductive liquids. The use in proximity to electrical/electrical equipment can require specific safety measures.



Safety Advice: Please see our Technical Information regarding "Mixing of Foam Concentrates" for further information

Disclaimer:

Any information in this product data sheet bases upon our best knowledge and expertise at the time of this issue. We reserve the right to change the content of this document or adopt to newer information. Please ask for the most recent revision of this data sheet.

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Please contact us for special packing sizes.



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