

TEGO® Addibit FS 725 A

Product description

TEGO® Addibit FS 725 A is a bitumen additive based on organo-modified siloxanes.

Physical properties

Appearance	clear, yellow
Active content	40 %
Density (25 °C)	approx. 0.9 g/cm ³
Viscosity (25 °C)	approx. 130 mPas
Flash point	> 100 °C

Application

TEGO® Addibit FS 725 A is used as a foam stabilizer in the production of foamed bitumen.

Properties/Benefits

- Increased initial foam height
- Higher initial foam volume
- Longer half-life time leads to strongly improved foam stability (much higher foam index)
- No impact on specification of the bitumen
- No impact on the adhesion properties of the bitumen
- Temperature stable up to 170 °C for several days

As a result, even bitumen grades with poor foaming characteristics may be used for this application.

Dosage and handling

The dosage depends on the type of bitumen and the desired foam quality.

For first trials we recommend 0.25 % referred to bitumen when working with a water content of 2.0 to 3.0 % in the total formulation. TEGO® Addibit FS 725 A is added to the bitumen phase.

Typical performance data

Test parameters

Bitumen grade	Total B 70/100
Test device	WLB 10 (Wirtgen)
Bitumen temp.	150 °C
Bitumen pressure	6.5 bar
Air pressure	6.0 bar
Water content	1.0 – 5.0 % (referred to bitumen)
TEGO® Addibit FS 725 A	0.25 % (referred to bitumen)

Foaming characteristics at different amounts of water added to the bitumen:

Control – without Additive

Water content	ERm	T _{1/2}
1.0 %	9.3	9.0
2.0 %	15.0	5.7

with 0.25 % TEGO® Addibit FS 725 A

Water content	ERm	T _{1/2}	ERa	FI
1.0 %	16	344	12.1	1861
2.0 %	20	291	16.2	2740
3.0 %	31	150	31.6	4210
4.0 %	37	96	37.2	3220
5.0 %	41	62	40.8	2680

ERm determined foam volume in litre

ERa maximum foam volume in litre

T_{1/2} half-life time; time in sec, after which 50 % of the foam collapsed

FI Foam index

Registration status

The ingredients of TEGO® Addibit FS 725 A are listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, PICCS, China.

Further information is available on request.

Storage stability

TEGO® Addibit FS 725 A may be stored in closed containers for at least 12 months, provided moisture is excluded and storage temperature does not exceed 35 °C.

Packaging

Pallet à 720 kg
(4 x 180 kg plastic drums)

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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Trademark notice and legal notice

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