

TEGO® ADDIBIT EM20

Product description

TEGO® ADDIBIT EM20 is a liquid, non-ionic emulsifier based glycerol esters.

Physical Properties

Appearance	clear, liquid
Active content	approx. 100 %
Viscosity	medium viscous
HLB (± 1 ; calculated)	8.4
Acid value	max. 7 mg KOH/g
Saponification number	100 – 120 mg KOH/g
Hydroxyl number	43 – 53 mg KOH/g
Water content	max. 1 %

Application

TEGO® ADDIBIT EM20 is used as an emulsifier especially for the production of bitumen emulsions, predominately for the formulation of solvent-free tack coat emulsions.

Properties/Benefits

As well as easy handling and good emulsification properties TEGO® ADDIBIT EM20 shows excellent ecological and toxicological parameters:

- low water hazard classification (WGK 1)
- biodegradable
- allows the formulation of completely solvent-free emulsions
- tack coat emulsions produced with TEGO® ADDIBIT EM20 pass the dust wetting test (“Staubdurchdringungs-Test”) according to DIN 52 046
- shows good dermatological properties (no skin irritation)

Dosage and handling

In the production of bitumen emulsions TEGO® ADDIBIT EM20 is added to the bitumen phase. The emulsification process is closed to standard tack-coat emulsions. Maximum emulsion stability can be achieved in combination with TEGO® ADDIBIT EK 7 A. TEGO® ANTIFOAM AS 10 may be added to control foam during emulsion production if needed.

For guide formulations please refer to the table (see below).

Registration status

TEGO® ADDIBIT EM20 is listed in the following chemical inventories:

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

Further information is available on request.

Storage stability

TEGO® ADDIBIT EM20 can be stored in original closed containers at temperatures below 40 °C for at least 1 year.

Packaging

Container à 1 000 kg

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.

Guide Formulations for solvent-free tack-coat emulsions

Bitumen Grade	B80	B80E	B200	B200E	pmB200E
Bitumen	35.00 %	35.00 %	35.00 %	35.00 %	35.00 %
TEGO® ADDIBIT EK 50	1.30 %	1.00 %	0.80 %	0.80 %	1.00 %
TEGO® ADDIBIT EM20	5.00 %	4.50 %	4.50 %	4.00 %	4.50 %
TEGO® ANTIFOAM AS 10	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
Water	ad 100 %	ad 100 %	ad 100 %	ad 100 %	ad 100 %
pH value (adjusted with HCL, 36.5 %)	2 – 3	2 – 3	2 – 3	2 – 3	2 – 3

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