

Product Information

SITREN AirVoid® 317

PRODUCT DESCRIPTION

SITREN AirVoid® 317 is a nonionic surfactant mixture. It provides very low dynamic surface tension in aqueous solution. It has a large diffusion coefficient which makes it rapidly diffuse and adsorb onto the air/solid, air/liquid interface in the concrete/mortar mixture. It may help the entrapped foams escape through wetting the cement particles surrounded by hydrophobic groups from PCE molecules at air/solid interface. It can also eliminate undesired foams through reducing the film viscosity and molecular lateral interaction at air/liquid interface.

Typical Properties

Property	Unit	Value
Appearance		Amber translucent to turbid solution
Active Content	%	48-53
Density	g/cm ³	0.95-1.05
Viscosity	mPa·s	<100

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

SITREN AirVoid® 317 is mainly applied in the defoaming of cementitious materials (concrete/mortar) formulated with superplasticizer (PCE). It can reduce/control the air content of the concrete, decrease surface foams of fresh concrete mixture and hardened concrete. Moreover, SITREN AirVoid® 317 also has a certain wetting and co-dispersing property which may help improve the workability of fresh concrete. SITREN AirVoid® 317 can be either added during the manufacturing of PCE or mixed with concrete/mortar directly.

SITREN AirVoid® 317 can also be used as a defoamer or wetting agent in the aqueous organic-inorganic complex dispersion, such as formulated constructive emulsion, polymer modified waterproofing mortar.

BENEFITS & ADVANTAGES

- Rapidly diffusing, dynamically wetting, efficiently defoaming
- Excellent compatibility with PCE and other concrete plasticizers, soluble in PCE solution under suggested dosage
- Co-dispersing with PCE, improve the workability of concrete/mortar mixture
- Modify the micro pore structure of hardened concrete/mortar, facilitate their mechanical strength development, improve their durability
- No negative influence on other properties of concrete

DOSAGE

In superplasticizer the suggested dosage of SITREN AirVoid® 317 may vary from 0.04 % - 0.2 % by weight of PCE (20 % solid content).

In polymer modified cementitious materials the suggested dosage of SITREN AirVoid® 317 may vary from 0.02 % - 0.1 % by weight of total formulation

PACKAGING

Steel drums à 200 kg

SHELF LIFE

SITREN AirVoid® 317 may be stored in closed containers at the temperature from 5 °C to 40 °C for 24 months

HAZARDOUS SUBSTANCE

Information concerning

- Classification and labelling according to regulations for transport and for dangerous substance
 - 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

Disclaimer

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