

Product Information

SITREN® MR 870

PRODUCT DESCRIPTION

SITREN® MR 870 is an emulsion concentrate based on biodegradable oils for the formulation of environmentally friendly mould release emulsions.

Typical Properties

Property	Unit	Value
Appearance		Milky white liquid
Density at 20°C	g/cm ³	0.94-0.97
Diluents		Water
Type of Emulsion		O/W

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

- Concentrate for the formulation of stable mould release emulsions
- Mould release agent for on-site use in the precast industry

Product Composition

Product Composition	Unit	Value
Active Content	wt%	54-58

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

SITREN® MR 870 reduces the adhesion between concrete and mould resulting in minimum cleaning efforts and wear of the mould. At the same time surface properties/apea-

rance of the concrete are improved. Additionally, SITREN® MR 870 provides the following benefits and advantages.

Readily biodegradable according to OECD criteria; biological degradability is 95 % (temperature: 301 °F; testing period: 28 days)

- Smooth concrete surface
- Reduced number of pin holes and other defects on the concrete surface
- No discoloration of the concrete surface
- Reduced dust build-up on moulds resulting in a cleaner surface and less cleaning cycles
- For horizontal and vertical cast concrete applications
- Easy to dilute and to apply
- Dilutions of SITREN® MR 870 exhibit excellent storage stability (tap water may be suitable)
- Reduced health and environmental risks due to bio-degradable oil

DOSAGE

Typical coverage rates of SITREN® MR 870 (1:1 dilution) may vary from 10-18 ml/m².

For the formulation of stable mould release emulsions SITREN® MR 870 should be diluted 1:1 to 1:4 by adding water (deminerlized water or soft tap water) to the concentrate. For non-metal moulds dilution ratios up to 1:9 with deminerlized water are possible.

HANDLING & PROCESSING

The dilutions should be protected by adding a suitable preservative (e. g. Acticide MV, Acticide B20, THOR GmbH). Further information please contact us.

For direct use in precast applications SITREN® MR 870 has to be applied from predilutions. The mould should be thoroughly cleaned prior to the application of the mould release agent. The entire mould surface has to be covered with SITREN® MR 870, e. g. by spraying before placing the reinforcement. Any excess of the mould release agent

needs to be removed in order to avoid adverse effects on the surface properties of the concrete.

In order to achieve the best release performance, the water from the release agent has to be let evaporated completely before the concrete is casted into the mould.

SITREN® MR 870 should not be applied at temperatures below 0 °C or during heavy rain falls.

PACKAGING

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

Container à 900 kg

SHELF LIFE

SITREN® MR 870 may be stored in closed containers for at least 6 months. The product has to be stored under frost free conditions; storage temperature should not exceed 35°C. The same applies to dilutions of SITREN® MR 870. Improper dilution conditions or preservation may adversely affect the stability of the diluted product.

HAZARDOUS SUBSTANCE

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.

REGISTRATION LISTING SUMMARY

The relevant components of SITREN® MR 870 are listed/registered or exempt in the following chemical inventories.

Registration Listings	
Registry	Status
Australia (AIIC)	Information on Request
Canada (DSL)	Yes
China (IECSC)	Yes
EU (REACH)	Yes
EU (EINECS/ELINCS)	Yes
Japan (ENCS)	Yes
Taiwan (TCSI)	Yes
USA (TSCA)	Exempted meets criteria for polymer exemption according to 40 CFR 723.750

Disclaimer

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