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Doka-OptiX

Release agent for concrete

User Information



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Component overview

Product description	▪ Doka-OptiX is a low-viscosity, ready-to-use release agent for concrete formwork. ▪ Doka-OptiX is an emulsion of vegetable-oil derivatives in water.
Special properties	▪ Doka-OptiX is particularly well suited for slightly absorbent and non-absorbent formwork surfaces. ▪ Doka-OptiX is easy to use, solvent-free and readily biodegradable in the soil (OECD 301/310).
Areas of use	▪ Concrete release agent for timber, plastic and steel formwork. ▪ Particularly suited for cast-in-place concrete with high requirements in terms of the concrete finish.

Assigning GISCODE classification to DGNB quality levels

The DGNB (German Sustainable Building Council) Criteria Set classifies concrete release agents into four quality levels based on the dimension 'Environmental quality'. The higher the quality level, the more positive the impact on the degree of fulfilment in this dimension.

GISCODE and DGNB quality levels

Name of concrete release agent	GISCODE			DGNB quality levels [1]
	BTM 01	BTM 10	BTM 20	
Doka-Trenn	—	—	✓	2
Doka-Trenn bio	—	✓	—	4
Doka-OptiX	✓	—	—	4

[1] Quality levels according to DGNB ENV1.2, version 2023.2 'Local environmental impact'.

VOC value

Name of concrete release agent	VOC value	Information
Doka-Trenn	< 0.3 %	Readily biodegradable.
Doka-Trenn bio	0 %	Readily biodegradable. Blue Angel according to RAL-UZ 178.
Doka-OptiX	0%	Readily biodegradable.

Technical data

Form, colour, odour	Liquid, milky white, low-odour
Density	0.97 kg/l
Solubility	Immiscible with water.
Dynamic viscosity (20 °C)	5040 mPas (according to ASTM D 2983)
Consumption	▪ Non-absorbent steel or plastic formwork: approx. 25 ml/m² 1 litre of Doka-OptiX is sufficient for approx. 40 m² ▪ Timber formwork: approx. 50 ml/m² 1 litre of Doka-OptiX is sufficient for approx. 20 m²

Instructions for use

Surface preparation	▪ Make sure that the formwork is dry and clean. ▪ Remove concrete residues. ▪ Remove rust from steel formwork.
Application	▪ Doka-OptiX is ready to use. Do not dilute. ▪ Preferably applied by spraying at sufficiently high pressure (4 bar). ▪ Apply a thin, uniform and closed film of release agent. This is particularly important for fair-faced concrete requirements. ▪ Wiping is generally not necessary. If wiping is required, this should only be done after flash-off. ▪ As long as the sprayed film has a milky appearance, protection from rain is required.
Application temperature	Sprayable down to approx. -4 °C
Waiting time	▪ As the water in the blend evaporates, the emulsion breaks and is converted from a milky liquid into a transparent film. The formwork can now be used for pouring the concrete. ▪ When waiting times are longer, protect the formwork against dirt.
Cleaning of equipment	▪ The substance can be washed off with water as long as it is in a white liquid condition. ▪ Once the emulsion has been broken, use standard fat solvents to clean it off.
Storage	▪ Store in original container, tightly closed at temperatures of no less than 0 °C. ▪ Storage class 12 (FRG)
Shelf life	approx. 14 months

Hazard warnings and safety advices	No special hazards. Not classified as hazardous to persons applying the release agent.
GISCODE	BTM 01 - Concrete release agent emulsions, non-labelled
Transport	Doka-OptiX is not classified as a hazardous substance.
Disposal	▪ Dispose of product residues via authorised waste collectors. ▪ Waste code number 12503 pursuant to ÖNORM S 2100. ▪ European Waste Catalogue: 13 08 02 ▪ Recycle completely emptied containers.
Measures in the event of an accident	▪ Absorb with liquid-binding material. ▪ Prevent liquid from entering bodies of water. ▪ German Water Hazard Class (WGK): 1 slightly water endangering