

PRODUCT PROPERTIES

- Mineral oil-free concrete release agent based on renewable raw materials
- Excellent chemical release properties
- Enables high-quality, low-porosity concrete surfaces
- Corrosion-inhibiting when a continuous film of release agent is present
- Protects formwork when used regularly
- Economical to use
- Low viscosity, making it easy to spray
- Low odour and solvent-free
- Readily biodegradable according to OECD 301-F (degradation rate 70.4% after 10 days and 84.3% after 28 days)
- QS 4 in accordance with the DGNB criteria matrix ENV 1.2 "Risks to the local environment"
- QN 5 in accordance with the BNB criteria matrix "Risks to the local environment"
- "Blue Angel" eco-label in accordance with RAL-UZ 178

AREAS OF APPLICATION

- Suitable for absorbent and non-absorbent formwork (e.g. wood, metal and plastic formwork) and not suitable for polystyrene
- Universally applicable in concrete and reinforced concrete construction as well as in precast construction
- Particularly suitable for the production of exposed concrete and architectural concrete
- Suitable for sustainable construction in accordance with DGNB and BNB, "Blue Angel" eco-label

APPLICATION ADVICE

General information: Ortolan Bio 100 is a concrete release agent based on renewable raw materials and bearing the "Blue Angel" eco-label; it is suitable for both absorbent and non-absorbent formwork types. The product is particularly suitable for producing high-quality concrete surfaces. Ortolan Bio 100 can be used in sustainable construction in accordance with DGNB and BNB standards.

Application: See information sheet 'General processing instructions for Ortolan release agents'. Due to its biodegradability, the release agent film is affected by weather conditions. If left open for a longer period of time, these formworks may need to be treated again with Ortolan Bio 100.

Special instructions: At temperatures below 0 °C, the viscosity and properties of the material change. However, any cloudiness in the material caused by frost disappears again when warmed up. Ortolan Bio 100 achieves optimum effectiveness at material temperatures above 0 °C. Applying Ortolan Bio 100 to polystyrene is not recommended.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	g/cm ³	0.89	
Viscosity	seconds	13	
Consumption	g/m ²	15 - 30	with absorbent formwork
		5 - 15	with non-absorbent formwork
Flash point	°C	> 140	
Water pollution hazard class		WGK 1	slightly hazardous to water
Biodegradability		84.3	after 28 days per OECD-301 F
VOC content	%	< 1	

All technical values are laboratory results determined at 21°C ±2°C and 65% relative humidity.

In-company production control	EN ISO 9001
Base	renewable oils with additives
Form	Liquid
Colour	Yellowish
Delivery form	20 l can (200 l barrel, 1000 l container on request)
Self-monitoring	EN ISO 9001
Storage	Can be stored in original sealed packages at temperatures between 0°C and 30°C in dry conditions for at least 12 months. Protect from direct sun radiation.

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : BTM10



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- biologisch abbaubar
- schadstoffarm

Note: The information in this data sheet must be adapted by the installer, specialist planner, and/or building inspector to the respective construction project, intended use, and specific local conditions. Any non-standard local conditions must be taken into account, and application-specific conditions must be reviewed in advance by the planner/specifier. Deviations from the specified standard conditions require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2600034558]