

Ortolan Bio 780 KS

Eco friendly concrete release emulsion with corrosion protection for steel formworks



PRODUCT PROPERTIES

- Based on renewable resources
- Strong corrosion protection
- Outstanding separating effect, minimizes concrete residues on the formwork
- Concrete surfaces with excellent quality
- Easily sprayable
- Odourless, with low emissions
- Free from solvents and mineral oils
- Ready to use
- Good hygiene at work
- Quality level 4 acc. to DGNB criterion matrix ENV 1.2. "Risks for the local environment"
- Fast biodegradability according to OECD-301 F „Manometric respirometry test“

AREAS OF APPLICATION

- Suitable for steel formworks
- For pre-cast and in-situ concrete constructions
- For the production of high-quality concrete surfaces
- For white and light coloured concrete
- For unheated formworks

APPLICATION ADVICE

General Information: Ortolan Bio 780 KS is an especially eco-friendly mineral oil-free concrete release emulsion for steel formworks. Due to its composition, it guarantees especially good work hygiene.

Ortolan Bio 780 KS contains a high efficient corrosion protection. Using it regularly, the steel formwork is protected and passivated.

Ortolan Bio 780 KS ensures light and smooth concrete surfaces. Through a proper and thin layer application is the adhesion of following coatings (for ex. plaster, paints, etc.) not affected.

Substrate: The formwork has to be absolutely clean, free from concrete residues, oil and fat-free. If necessary clean it using Donnitol Oil Ex.

The formwork surface may be slightly moist, but completely free from other formwork oils.

Application: Please take into consideration “General Application Advice for Ortolan release agents”.

Ortolan Bio 780 KS forms a highly effective, waterproof release film on the formwork, after the water has evaporated (until the white glow disappears, approx 5 - 20 minutes after application). The evaporation time depends on temperature, air humidity and air exchange.

To achieve an even and thin film wipe down using a cloth or fleece.

Afterwards the concrete can be poured into the formworks immediately.

Further Information: Suitability for rubber materials should be checked in advance.

Heavy overdosage can lead to the formation of spots, dusting, sanding and water repellency of the concrete surface.

Before application please refer to the “General Application Advice for Ortolan release agents”!

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	g/cm ³	0.99	
Viscosity	seconds	10 - 12	Pouring cup DIN 4 mm
Application conditions	°C	5 - 35	air and substrate temperatures
		1 - 30	material temperature (protect from the sun)
Consumption	ml/m ²	10 - 15	
Water pollution hazard class		WGK 1	slightly hazardous to water
Biodegradability	%	95	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.

Base	plant oil / water emulsion with corrosion inhibitors
Form	liquid
Colour	milky white
Delivery form	30 l canister, 200 l drum, 1000 l container
Self-monitoring	EN ISO 9001
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.
Packaging disposal	Make sure single-use containers are completely empty.

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : BTM05

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will 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. [2400020622]