

Ortolan Classic 712

Solvent-free concrete release agent for absorbent and non-absorbent formworks



PRODUCT PROPERTIES

- Ready to use release agents based on mineral and silicone oils
- Outstanding chemical and physical separating power
- Excellent ensuing concrete surface quality
- Minimised concrete residue on the formwork
- Prevents swelling, distortion and dry-out of timber formwork
- Corrosion-inhibiting and rain-resistant
- Requires no flash-off time
- Easy sprayable
- Low in odour
- Solvent-free
- Quality level 1 acc. to DGNB criterion matrix ENV 1.2. "Risks for the local environment"
- Fast biodegradability according to OECD-301 F (Degradation rate 70 % at 28 days)

AREAS OF APPLICATION

- Suitable for absorbent and non-absorbent formworks, e.g. made from wood, steel or plastics
- For direct demoulding of semi-dry concrete, e.g. pavements, for split floors and concrete sleepers
- For both precast concrete manufacturing and in-situ concrete
- For siderails in precast manufacturing
- For the production of high-quality concrete surfaces and exposed concrete
- For vertical formworks
- For unheated and heated formworks up to + 80 °C

APPLICATION ADVICE

General: Ortolan Classic 712 is a mineral-oil-based, nonwater-miscible concrete release agent for absorbent and non absorbent formworks.

Substrate: The formwork must be dry, clean and free of concrete residues. All residues of other formwork oils must be completely removed. If necessary, clean with Donnitol Oil Ex.

Application Methods: See instruction leaflet "General Application Instructions for Ortolan Release Agents".

Ortolan Classic 712 is applied in a thin layer over the entire surface using sprayers, e.g. MC- Spezialspritz. In order to achieve the thinnest possible application, the formwork should be removed afterwards using a rubber slider. Further wiping with a cloth results in particularly high demoulding qualities. The concrete can then be placed without flash-off time.

The release agent film may be adversely affected by exposure to inclement weather. In the event of long periods spent outdoors, it is therefore recommendable to retreat the formwork with Ortolan Classic 712.

A second application of the release agent is recommended for highly absorbent and fresh wooden formworks.

Further Information: Surplus release agent on the formwork surface can lead to staining, powdering or sanding of the concrete surface.

Please ensure compliance with our instruction leaflet "General Application Instructions for Ortolan Release Agents".

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	g/cm ³	approx. 0.84	
Viscosity	seconds	13	kinematic to DIN 53211
Application conditions	°C	> 0 < 35	air and material temperatures
		> 0 < 80	substrate temperature (formwork)
Consumption	ml/m ²	approx. 10 - 15	with non-absorbent substrate
		approx. 15 - 30	with absorbent substrate
Flash point	°C	> 141	
Water pollution hazard class		WGK 1	slightly hazardous to water
Biodegradability	%	4	after 1 day per OECD-301 F
		31	after 7 days per OECD-301 F
		70	after 28 days per OECD-301 F

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

Base	mineral oils with additives
Form	liquid
Colour	yellowish
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 : BTM20

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. [2300018477]