

CWC® Release DL100

Mineral Oil based, ready-to-use, form-release agent

Description

Chemical release agent suitable for mould and shutter faces prior to casting concrete to achieve a clean release. After removal of the formwork, the resultant concrete has a smooth hard uniform finish, with minimized Entrapment of air bubbles at the mould surface, reducing surface blemishes, and substantially reducing remedial costs. Release DL100 can be applied to the formwork by spray in the form of a light uniform mist coating.

As well as improving cast concrete surfaces, Release DL100 also minimizes damage to form surfaces. Corrosion on steel moulds is reduced. On all mould types of the easier release and reduced residue minimize the chance of damage to the mould surface during stripping and cleaning. This extends the life of the surface and reduces the frequency of concrete defects caused by damage to the mould face.

Indicative characteristics

Appearance / Colour	: Light Brownish oily liquid
Density	: ~0.83 kg/l at 25°C
Flash Point	: >100°C

The information contained in this data sheet is given to the best of our knowledge and the results from extensive testing to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory.

USES

- Prestressed, precast, and pipe plants
- RCC structures

Release DL100 is well suited for shutter faces made from wood, steel, fibreglass, aluminium & paper. Release DL100 reacts chemically with cement to impart excellent release properties to treated surfaces. Concrete cast against surfaces coated with Release DL100 exhibit a smooth, hard, uniform finish. Release DL100 has no negative effect on the properties of concrete, nor will it impair the adhesion of subsequent surface treatments when applied at the recommended coverage rates.

Advantages:

- Water-resistant chemical barrier – Ensures fast, clean stripping of forms
- No residue transfer – Stain-free & less voids
- Does not harm concrete – compatible
- Alkali resistant – protects aluminum forms
- Safe for wood fibers – extends service life
- Ready to use

Method of Use

SUBSTRATE QUALITY / PRE-TREATMENT

All moulds, new or used, must be cleaned of surface deposits of rust, concrete, oil or other materials. Inadequate cleaning may lead to surface blemishes due to the adhering material.

If only limited use of the formwork is envisaged, new timber moulds may be coated directly with Release DL 100. If forms are to be regularly re-used, then the surface should initially be coated with a suitable polyurethane sealer. This provides increased protection to the timber surface, improves ease of cleaning, and prevents the buildup of large residual levels of release agent in the timber of the form which may lead, over time, to increased surface dusting or retardation.

APPLICATION INSTRUCTIONS

The moulds should be dry and clean. Any residues of rust and concrete must be removed. Release DL 100 is applied in thin layers, covering the complete surface (a second application may be necessary in case of highly absorbent formwork). We recommend the use of a special spray gun with an operating pressure of 3-6 bar and a flat spraying nozzle. Application by a brush, roller or cloth is also possible. Accumulations of Release DL 100 should be avoided. Any excess should be wiped off using a cloth or sponge. Before concreting preliminary test are recommended to optimize the procedure for each project.



Coverage Rate

Steel, Aluminium or Plastic formwork 40-60 m²/l and Timber form 30 m²/l. The consumption is dependent on the surface texture and porosity of the formwork. Actual dosage to be finalized based on site trials.

Best results will be obtained with the thinnest practical coating. Over application should be avoided. Excessive application on flat surfaces or which leads to pooling of release agent in the corners of forms is uneconomic and can lead to surface dusting or, in worst cases, surface retardation.

After stripping or Demoulding

After use, the formwork or mould should be brushed or wiped clean of any excess dust prior to re-application of Release DL 100 for the next use of the mould. The use of Release DL 100 minimizes the amount of time and effort required for this process.

Regional Offices

MUMBAI:

Office No - 616/617, J K Chambers
Sec-17, Vashi, Navi Mumbai-400703
Maharashtra, INDIA.

CHENNAI:

Plot No.3/86-E, Ground Floor
AIEMA Road, Ambattur Industrial Estate
Chennai – 600058 Tamil Nadu, INDIA

Safety Precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item.

Before use, refer to the Material Safety Data Sheet.

The MSDS is available on www.cwcchemicals.com

Packaging

20, 200lit & 1000lit IBC tanker

Shelf Life: If stored in unopened containers at normal ambient temperatures, a shelf-life of approximately 12 months.

For Enquiries / Complaints:

www.cwcchemicals.com

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