

Formcoat W100

Concentrated and emulsified chemical mould release agent



Description

Formcoat W100 is supplied as a concentrated and emulsified pale amber liquid which turns white when diluted with water to produce a chemical release agent, combining the outstanding release properties of such materials with the economy of a conventional oil. It reacts with the alkali in the concrete to form a thin water repellent layer on the surface of the mould which enables easy stripping from the hardened concrete.

Applications

After dilution with water, Formcoat W100 is used as a release agent for most types of formwork allowing for easy stripping of formwork and improving concrete finish.

Advantages

- ▲ Easy release, reduces damage to concrete surface and improves finish.
- ▲ Minimizes surface blemishes and staining.
- ▲ Improves fair-faced concrete quality.
- ▲ Reduces opportunity of damage to formwork.
- ▲ Extends formwork usable life.
- ▲ Minimizes cleaning of formwork before re-use.
- ▲ **Concentrate form:** reduces storage and transport costs.
- ▲ **Water based:** requires water for dilution.

Method of Use

Surface Preparation

Formwork must be cleaned of surface deposits, rust, concrete, oil or other materials. Inadequate cleaning may lead to surface blemishes. Coating new timber formwork with a polyurethane sealer will protect the formwork, increase service life and improve concrete surface finish.

Instructions for Applying Formcoat W100

Mixing: First dilute Formcoat W100 concentrate in the proportion of 1 litre to 5 litre of water, using a clean container and stirring thoroughly until evenly mixed. If the solution is not used on the same day, it should be stirred again before use and may require very good stirring after five days.

Technical Properties @ 25°C:

Colour:	Cloudy straw liquid
Specific gravity:	0.83 ± 0.05
Dilution rate with water:	1:5 by volume
Colour after dilution:	White

New Moulds: No preparation is normally necessary unless metal moulds show signs of rust, then these must be wire brushed or treated with emery cloth and burnished clean before coating.

Used Moulds: Must be thoroughly cleaned and free from old concrete, dirt, cement, laitance, old mould oil and other contaminations. Use a strong detergent for removal of oil and grease; Setklens for cement and concrete deposits.

Application

Apply Formcoat W100 1:5 water dilution to the face of the formwork by spray, brush or cloth. Only one coat should be applied (as thinly as possible except on very absorbent new timber where two coats may be necessary for the first application only) and allow to dry.

Only if the formwork is not used for several days, a further coat may be applied.

Application of Formcoat W100: Only a very thin film of Formcoat W100 should be applied. Excess could lead to surface dusting of the concrete.

The best results are obtained by applying with a fine mist sprayer. Where a cloth is used, it should first be soaked in the release agent and then squeezed out well before applying. This ensures a thinnest possible film.

Drying Time: It is essential that the Formcoat W100 coating is thoroughly dried before placing concrete otherwise, being an emulsion, its performance may be impaired. In conditions of high humidity drying times will be much longer than in warm dry conditions.

Rainfall: It is necessary to protect freshly coated formwork from rain which may dilute the emulsion before it has dried.



Formcoat W100

Once dried the coating will withstand an occasional light shower but may be affected by heavy or continuous rain. In such cases, a further coat is advised once surface has dried out thoroughly.

De-moulding: De-moulding can be carried out in the normal way and no special precautions are necessary.

After De-moulding: Formwork surfaces must be thoroughly cleaned, but this is normally easy due to the excellent release action.

Before Re-Use: The cleaned formwork surfaces must be recoated with Formcoat W100 each time, in accordance with normal practice.

Packaging

Formcoat W100 is available in 1, 5, 10, 20, 50 and 200 litre containers.

Coverage

1 litre of Formcoat W100 is diluted with 5 litre of water to give 6 litre of solution and it will cover 150 - 160 m² depending upon the nature of the substrate.

Storage

Formcoat W100 should be stored under cover at a minimum ambient temperature of 5°C.

Diluted Formcoat W100 will remain stable for at least 5 days, but must be re-stirred before use.

Shelf Life

Formcoat W100 has a shelf life of 12 months from date of manufacture if stored in proper conditions and sealed drums.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

Contact with skin, eyes or mucous membrane may cause irritation.

Wear suitable gloves and eye protection. Should accidental skin contact occur, remove with soap and water.

In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

For further information refer to the Material Safety Data Sheet.

Fire

Diluted Formcoat W100 is nonflammable.

Disposal

Disposal must be made according to official local regulations. The material should not be allowed in any case to reach ground water, water bodies or sewage system.

In case of spillages, the material should be absorbed with liquid binding material such as sand.

Contaminated packaging should be emptied thoroughly and saved for recycling after proper cleaning.

More from Don Construction Products

A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

