

# NODAL 400 E

## Concentrated and Emulsified Chemical Mould Release Agent

### Description

**Nodal 400 E** is supplied as a pale amber liquid which turns emulsifier 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 skin on the surface of the mould which enables easy stripping from the hardened concrete.

### Uses

For easy and stain free release of concrete moulds and formwork of all types. Particularly where wooden formwork is used and de-moulding or stripping times exceed 24 hours.

### Advantages

- ✓ No cleaning of unsightly oil stains if plastering is not required.
- ✓ Produces fair-faced finish concrete.
- ✓ Can be used on all types of moulds.
- ✓ Makes cleaning of form faces between pours very easy.
- ✓ Reduces storage and transport costs.
- ✓ Only requires water for dilution.
- ✓ Aids corrosion inhibition

### Properties

Dilution rate	1 part <b>Nodal 400 E</b> : 6 parts clear water (by volume)
Non-staining	Can be used safely with white cement
Specific Gravity	Typically, 0.93 to 0.96 at 27°C

### Application Instructions

#### Mixing

First dilute **Nodal 400 E** concentrate in the proportion of 1 : 6 with water, using a clean container and stirring thoroughly until evenly mixed. If the solution is not used the same day, it should be stirred again before use and may require very good stirring after 5 days.

**New Moulds:** No preparation is normally necessary. Metal moulds showing signs of rust must be wire brushed or treated with emery cloth and burnished clean before coating.

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

**Application:** Apply the **Nodal 400 E** 1 : 6 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 allowed to dry.

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

Only a very thin film of **Nodal 400 E** 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 the thinnest possible film. **Nodal 400 E** is not generally recommended where demoulding is required within 24 hours, although excellent results may be obtained with shorter times.

**Drying time:** It is essential that the **Nodal 400 E** is thoroughly dry 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. After drying, 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 surfaces have 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 **Nodal 400 E** each time, in accordance with normal practice.

## Coverage Rate

1 litre of **Nodal 400 E** when diluted with 6 litres of water will cover 80 m<sup>2</sup> to 180 m<sup>2</sup> depending upon the nature of the substrate.

The highest coverage rate must be aimed for - As a guide: unsealed timber or plywood – 80 m<sup>2</sup> to 115 m<sup>2</sup> per 7 litres of solution.

If coverage rates are appreciably less than these and satisfactory results are not being achieved, then coverage should be increased as close to the higher figure as possible.

## Packaging

**Nodal 400 E** is supplied in 5 L, 20 L and 200 L HDPE containers.

## Shelf life & Storage

**Nodal 400 E** has a shelf life of 12 months provided the temperature is kept in the range of 5°C to 40°C. If this temperature is exceeded in any respect, advice should be sought from the supplier. Diluted **Nodal 400 E** will remain stable for at least 5 days but must be re-stirred before use.

## Safety Precautions

Gloves should be worn when handling **Nodal 400 E**. Splashes on skin should be removed with soap and water. Contact with the eyes should be avoided and accidental contamination should be washed with plenty of water and medical treatment sought immediately. If swallowed, obtain immediate aid. Do not induce vomiting. Ensure good ventilation.

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on [www.ccichemicals.in](http://www.ccichemicals.in) or contact us at [info@ccichemicals.in](mailto:info@ccichemicals.in).

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