



# TechnoFinish® PolyMol Emulsion Extra

Water dilutable concentrated and emulsified Chemical Mould Release Agent.

## Description:

TechnoFinish® PolyMol Emulsion Extra is a concentrated, emulsifiable base oil that can be diluted on site with potable water to produce a combination physical and chemical, V.O.C. compliant, form release agent combining the outstanding release properties of such materials with the economy of a conventional oil.

TechnoFinish® PolyMol Emulsion Extra 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. Once diluted, the TechnoFinish® PolyMol Emulsion Extra will not transfer or stain the cast surface, which allows the hardened concrete to accept coatings, paints, or caulks without any inter-coat adhesion problems.

## Application Includes:

TechnoFinish® PolyMol Emulsion Extra is recommended for use in the following areas of application:-

- To provide quick, clean and easy stripping of moulds and formwork
- Suitable for heavy or light pre-cast concrete
- Used to ensure high quality, fair faced and stain free concrete surface finishes

## Features & Benefits:

- Cost effective concentrate reduces freight & transportation costs
- Environmentally safe
- Water dilutable
- Non-staining
- Non-corrosive
- Odorless
- Minimizes surface defects and voids (bug-holes)

## Instructions for use

### Surface preparation

#### 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.

#### New Timber:

Plywood will give superior results and much extended re-use if first coated with TechnoFinish® PolyMol Emulsion Extra.

#### Used Moulds:

Must be thoroughly clean and free from old concrete, dirt, cement laitance, old mould oil and other contaminations.

### Coating Procedure

Application Apply the TechnoFinish® PolyMol Emulsion Extra 1:4 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. If the formwork is not used for five days, a further coat may be applied. Only a very thin film of TechnoFinish® PolyMol Emulsion Extra 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. TechnoFinish® PolyMol Emulsion Extra is not generally recommended where demolding is required within 24 hours, although excellent results may be obtained with shorter times.

### Drying time

It is essential that the TechnoFinish® PolyMol Emulsion Extra is thoroughly dry before placing concrete. Otherwise, being an emulsion, its performance may be impaired. In condition of high humidity drying times will be much longer than in warm dry conditions.

### Mixing

First dilute TechnoFinish® PolyMol Emulsion Extra concentrate in the proportion of 1:4 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.

### Spray equipment

For best results, apply TechnoFinish® PolyMol Emulsion Extra an even coat by a low pressure spray equipment such as (Knapsack sprayer), sponge mop, roller or brush. Remove any puddles of excessive application.

### Cleaning

Tools used for applying TechnoFinish® PolyMol Emulsion Extra can be cleaned with solvent (ethyl alcohol, etc.). In case of particularly absorbent forms the dosage could be higher than the recommended one.

## Health and Safety instructions

TechnoFinish® PolyMol Emulsion Extra is non-toxic but can cause irritation to persons with sensitive skin if exposed and respiratory reaction if inhaled. Protect your health while working with this material, always use safety goggles, gloves and safety clothing. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended. Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals.

Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

## Shelf Life & Storage

When stored in warehouse conditions below 30°C, TechnoFinish® PolyMol Emulsion Extra has a minimum shelf life of 12 months. Freezing and exposure to heat and/or direct sunlight should be avoided. Containers should be kept sealed and airtight to prevent any reduction in shelf life.

## Packaging

TechnoFinish® PolyMol Emulsion Extra is available in 20 litre pails and in 210 litre drums.

**Additional Information:** Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd - The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

\*Separate datasheet are available on these products.

## Consumption

1 Litre of La TechnoFinish® PolyMol Emulsion Extra when diluted with 5 Litre of water will cover 80 to 160 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 to 100 m<sup>2</sup>/6 Litre of solution. If coverage rates are appreciably less than these and satisfactory results are not being achieved, then coverages should be increased as close to the higher figure as possible.

## Typical Properties at 25°C

Supply form	Liquid
Colour	Brownish white after dilution with potable water.
Flash point	Approximately 61°C.
Service temperature	min. + 8°C; max. + 50°C
Specific gravity@ 25° C	1.02 ± 0.03 at 25°C
Dilution ratio (by volume)	1 part TechnoFinish® PolyMol Emulsion Extra: 4 parts clear water

**DISCLAIMER:** The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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# STERLING TECHNOTRADE INDIA PRIVATE LIMITED

## The Specialist Construction Chemical Company®

**Head Office:** 109-111-112, 1st Floor, Vijaya Building, No. 17, Barakhamba Road, Connaught Place, New Delhi- 110001

**Manufacturing Unit:** Plot No-J-3, UPSIDC Site C, Surajpur Industrial Area, Greater Noida, Uttar Pradesh 201306

**WEB:** sterlingtechnotrade.com | **EMAIL:** support@sterlingtechnotrade.com | **TEL:** 01145084212