

CHEMLEASE

Concrete Chemical Release Agent

Description

Chemlease is an internationally accepted formulation giving an optimum of release and concrete finish for all types of formwork. This is achieved by the chemical formation of complex soaps at the concrete interface which is a very different concept to conventional mould oils.

Advantages

- Reproduction of difficult features readily achieved with uniform matt finish.
- Concrete cast against Chemlease requires no further treatment other than a light brushing prior to the application of plasters, adhesives, mortars and surface coatings.
- Drying facility provides a safe walking surface on soffit shutters without transfer of oil to reinforcement or contamination to concrete surface.
- Metal and timber forms are temporarily protected from the weather.
- Suitable for use with all types of cement under all climatic conditions.
- Incidences of blow holes and surface crazing greatly reduced.
- Excellent rates of spread are easily attained using our specially designed spray equipment resulting in maximum economy on a low unit cost per square metre.
- Positive chemical release greatly reduces stripping times, minimising cleaning and subsequent damage to formwork.
- Ideal for use in precast or industrial operations where prestress or heated systems are involved.
- Chemlease is unaffected by rain and may be applied either immediately before casting or treated forms may be left weeks before concreting.

Technical Information

Composition:	Tall oil fatty acids and hydrocarbons.
Viscosity:	14 secs at 20°C BS3900 Part A6
Flash Point:	47°C (118°F)
S.G. at 20°C:	0.83
Saponification Value:	12.00
Freezing Point:	-30°C
Colour:	Pale Amber
Storage:	Indefinite in unopened drum

Average Coverage

	Metre ² /litre
Concrete, Rough Sawn Timber etc.:	20-22
Plywood:	25-30
Paper Coated Plywoods:	30-40
Metal, Fibreglass, Plastics and Plastic Coated Plywoods:	40-60

Chemlease has been tested and approved by the National Water Council/ WRC.

Surface Preparation

The form surfaces should be clean and dry prior to the application of Chemlease.

Application Instructions

A thin even film of Chemlease should be applied using the manufacturers spray equipment or an absorbent applicator. Excess material in the bottom of moulds should be mopped up. Unsealed timber requires a double action application prior to the first cast.

Recommendation

Chemlease is recommended for use with many types of specialised formwork and concreting systems, i.e. decorative plastics, flexible rubbers and G.R.C. etc. Chemlease is recommended for the vast majority of applications. However, it is a flammable liquid and solvent vapour is given off during drying. It is therefore not suitable for use in tunnelling or mining construction or in confined areas where ventilation is poor. For these applications Chemlease O.F. should be used. Chemlease O.F. should also be used where expanded polystyrene formers are in use. Chemlease will give temporary protection to steel shutters but in corrosive environments, i.e. harbours, marinas and coastal works, we recommend the use of Chemlease S.R.O. which has been developed with greatly increased anti-corrosive properties. For long term protection and storage of steel moulds and shutters, Chemshield is recommended.

Packaging

Chemlease is available in 25 litre and 210 litre drums and in 1000 litre bulk tanks.

Storage

Chemlease should be stored at normal temperature, kept out of the reach of children and away from foodstuffs.

Health & Safety

Gloves and goggles should be worn when using this product. Accidental splashes on skin should be removed by washing with soap and water. Contact with eyes should be avoided and accidental contamination should be washed out and medical attention sought. If swallowed, do not induce vomiting and seek medical aid. Ensure adequate ventilation and do not use near naked flames or smoke during use as the product is flammable.

Limitations

The manufacturer does not recommend that formwork be stripped in less than 12 hours unless used in conjunction with an accelerated curing system.

Technical Note

Chemlease, when used in accordance with the manufacturers recommendations, does not cause staining. Concrete 'staining' can be caused by a number of factors on which our Technical Department can advise.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.



Kingston House, 3 Walton Road, Patkinson North, Washington, Tyne & Wear, NE38 8QA, United Kingdom.

TEL: +44 (0) 191 416 8360 FAX: +44 (0) 191 415 5966 W: www.nufins.com E: info@usluk.com

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