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General Information

SHIELDKOTE "E" is a highly effective and ready to use water based form release. Shieldkote "E" is chemically designed to react with freshly poured concrete to produce a positive release. Shieldkote "E" contains no fuel oil or petroleum solvents making it safe for use on solvent sensitive forms. SHIELDKOTE "E" is especially suited for use where conditions require a non corrosive, non combustible, non staining, odourless, and environmentally safe compound.

SHIELDKOTE "E" produces a tighter concrete surface due to the chemical reaction and a smoother surface due to the low surface tension of the release.

Features:

- Ideal for metal, plastic, and fibreglass forms
- Environmentally safe
- Non-flammable, non-corrosive, odourless, non-staining
- Safe for solvent sensitive forms
- Leaves no residue or stain on the concrete surface
- Provides for excellent adhesion of latex paint or other surface treatments
- Waterbase - easy clean up of spray equipment and tools
- Contains no petroleum distillate

Uses

SHIELDKOTE "E" is suited for use on forms which are sensitive to solvents. SHIELDKOTE "E" neutralizes corrosive lye causes rusting of metal. SHIELDKOTE "E"'s protective film not only results in better concrete but also enhances the life expectancy of the form materials.

Product Information**COMPOSITION AND MANUFACTURE**

SHIELDKOTE "E" is an emulsion of synthetic surfactants and metallic soaps.

GENERAL APPEARANCE

SHIELDKOTE "E" is milky in colour and dries to a clear film. Form surfaces that are treated with SHIELDKOTE "E" will have a slightly darker colour to them. Concrete surfaces are lighter due to the chemical reaction.

PROPERTIES OF MATERIALS:

Appearance	- Milky liquid
Flashpoint	- None (Water Based)
Specific Gravity	- 1.0
Bulk Density	- 1.0 kg/L (8.0 lbs per US gallon)
Conforms to	- CRD CE 1401.1 CW 03101

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Installation Instructions

Preparatory Work

1. Form surfaces should be clean and free from concrete build up, rust, scale and dirt.
2. Form surfaces should be dry, not wet, prior to application.
3. Before incorporating forms into the forming system, apply one or preferable two heavy brush coats to the edges to protect the laminations.
4. Best results are obtained if SHIELDKOTE "E" is allowed to dry 1 hour before concrete is poured.

Application Instructions

1. SHIELDKOTE "E" is ready to use and can be applied by brush, roller or low pressure sprayer. SHIELDKOTE "E", like all liquid compounds, should be stirred prior to each use.
2. SHIELDKOTE "E" should be applied at the rate of coverage outlined in application rate section.
 - 3a. Application by brush: Apply evenly one coat with a soft bristle hair brush.
 - 3b. Application by roller: Apply with full, even strokes allowing no pinholes or uncoated areas.
 - 3c. Application by spray: Use low pressure sprayer; use minimal fog spray allowing no uncoated areas.
4. Avoid excessive build up, runs or puddles. Excess coating may retard the concrete. For maximum performance and efficiency apply SHIELDKOTE "E" in a thin monolithic film.
5. If it rains after application, protect treated surfaces until conditions are dry, and re-apply if necessary..

Rate of Application

SHIELDKOTE "E" should be at the following rates applied:

- a. Plastic forms at the coverage rate of $15\text{m}^2/\text{L}$ (600ft²/gallon)
- b. Fibreglass forms at the coverage rate of $20\text{m}^2/\text{L}$ (800ft² /L)
- c. Steel forms at the coverage rate of $25\text{m}^2/\text{L}$ (1000ft²/gallon)



3407 SHIELDKOTE 'E'

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PRODUCT BULLETIN

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Clean Up

Clean all tools and equipment with water. Clean hands with soap and water.

First Aid

Avoid eye contact. Use eye protection equipment. Use warm water to wash eyes out. Harmful if swallowed. If swallowed, call a physician. Keep out of the reach of children.

Limitations

Keep from freezing prior to application.

Do not apply when air temperatures are below 4°C (40°F) or when surface temperature is below 0°C (32°F). Do not use on wet forms.

Do not use when rain is anticipated between the time of the application and the concrete pour. If it rains after application, protect treated surface until conditions are dry.

When rain is anticipated or wet conditions are unavoidable, use ENVIROCOAT. Excessive application may result in dusting on the concrete surface. Application rates should be as recommended. Surface on which this compound is applied will be slippery and should be protected from traffic until concrete is poured. SHIELDKOTE "E" is not recommended when concrete is to be steam cured or for tilt-up work.

Warranty

Innovative Mfg strives to manufacture the highest quality products using selected raw materials, manufacturing methods and testing procedures. Innovative Mfg products are warranted to be of uniform quality within manufacturing tolerances. Since no control is exercised over the end use of the product, no warranty, expressed or implied, is made to effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective.