

Basic Description

SHIELDKOTE STD. STANDARD is a chemical form releasing agent formulated from natural organic compounds and a hydrocarbon carrier. SHIELDKOTE STD. imparts a waterproof film to the forms to prevent the adhesion of concrete for a quick and easy release.

Features:

- High coverage rate
- Non-staining
- Use on wood, metal, fibre forms
- Easy application
- Minimized residue on concrete forms
- Waterproofs, strips clean, minimizes dust
- Longer form life

Uses

SHIELDKOTE STD. is safe for use on all wood forms, seal-treated or untreated plywood forms, metal forms, fibre tube forms, concrete equipment, and precast concrete forms where a positive separation of the poured-in-place concrete is desired.

SHIELDKOTE STD. reacts with freshly poured concrete to produce the slipform reaction necessary for positive release. SHIELDKOTE STD. is formulated to reduce surface dusting, as well as surface voids by allowing trapped air and water to escape from properly vibrated concrete.

SHIELDKOTE STD. properly applied will not leave residue or stains on the surface of the concrete. SHIELDKOTE STD. produces a lighter concrete surface due to the chemical reaction, and a smoother surface due to the low surface tension of the release.

SHIELDKOTE STD. will develop a waterproof coating on plywood and wooden forms by preventing the concrete mix water from absorbing into the forms, thus inhibiting grain raising, and form deterioration. SHIELDKOTE STD. contains special chemicals to inhibit rust on steel forms, increasing their life and acting as a self-cleaning membrane coating. SHIELDKOTE STD. reduces form maintenance costs because of the clean release, minimizing preparations for re-use.

Product Information

Composition and Manufacture:

SHIELDKOTE STD. STANDARD is a blend of wood fat derivatives, and special additives in a hydrocarbon carrier.

General Appearance:

Surfaces that are treated with SHIELDKOTE STD. STD. will have a slightly darker colour to them and water beads-up on them.

Product Information Cont'd

Properties of Material:

Appearance	-	pale straw coloured liquid
Flash Point	-	70°C (160°F)
Specific Gravity	-	0.82
Viscosity	-	5 – 6 cps
Density	-	0.82 kg/litre (6.8 lb/US gallon)
Conforms to	-	CE 1401.01 (17.4) Corps of Engineers CW 03101 (5.3) Corps of Engineers CE 204 (3-03-K) GS GSA

Installation Instructions

Preparation:

1. Surfaces should be clean and free from concrete build-up, rust, scale and dirt.
2. Surfaces should be dry prior to application.
3. Before incorporating plywood forms into the forming system, apply one and preferably two heavy brush coats to edges to protect the laminations.

Application Rate:

SHIELDKOTE STD should be applied at the following rates

- Wood forms and untreated plywood forms at the rate of coverage of 20-24 m²/L (800-1000 ft²/ US Gallon)
- Steel forms, seal-treated plywood forms, fibre tube forms at the coverage rate of 24-30 m²/L (1000-1200 ft²/US Gallon).

Application Instructions:

1. SHIELDKOTE STD. is ready to use and can be applied by brush, roller or low-pressure sprayer. Recommended applicator is a low-pressure sprayer. SHIELDKOTE STD., like all liquid compounds, should be stirred prior to each use.
2. SHIELDKOTE STD should be applied at the rate of coverage outlined in the above-mentioned application rate.
3. a. Application by brush: Apply evenly one coat with a soft bristled brush.
b. Application by roller: Apply with full, even strokes, allowing no pinholes or uncoated areas.
c. 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. When SHIELDKOTE STD is applied in a thin monolithic film, maximum performance and superior efficiency are obtained.

Clean-up

Clean all tools and equipment with MINERAL SPIRITS. Clean hands with a waterless hand cleaner. Do not use petroleum distillates on your skin.

Maintenance

If storing SHIELDKOTE STD. outside or in an unheated facility, store drums in horizontal position so the bungs are at the nine and three o'clock position to prevent moisture accumulation on the underside of the drumhead.

First Aid

Contains petroleum distillates. Avoid eye contact. Use eye protection equipment.

Harmful or fatal if swallowed. If swallowed, call a physician immediately.

Use under well-ventilated conditions. If overcome by fumes, give patient air and call physician.

Keep away from an open flame.

Keep out of reach of children.

Limitations

Do not use galvanized forms or store in galvanized pails. Old forms must be free of concrete build-up, scale, dirt and rust prior to application. Do not apply to foam-liner forms - use SHIELDKOTE STD. "E". Excessive application may result in concrete retardation at the surface. Application coverage should be at recommended rates, and over application should be avoided. Surfaces to be treated should be dry.