

COCOON 333™

Strippable Nuclear Coating



DESCRIPTION

COCOON coatings had their origin immediately following World War II, when millions of dollars worth of United States naval warships and airplanes were successfully coated and “mothballed” for future use. Through continuous research and development, its permanent water-proofing, gas seal, and protective qualities were continually refined to produce maximum versatility and ease of application. COCOON 333 is a strippable coating used for long-term storage of materials and equipment otherwise susceptible to corrosion. This product is mainly used for protection against alpha and beta radiation. COCOON 333 is used in hot cells, tunnels, laboratory hoods, table tops, etc. When contaminated, the coating is stripped from the surface, disposed of, and the surface re-sprayed.

OUTSTANDING FEATURES

- COCOON 333 is applied to a variety of backings and surfaces to provide a complete sealing of the area against particle infiltration
- Will seal out harmful elements to provide positive protection from contamination
- Radiocontamination may be removed effectively using detergents and water
- Effective reduction from 5uCi down to 0.018 uCi using pre-wet and hose-down

- No rubbing or wiping necessary to remove radiocontaminants from surface of COCOON 333
- Approved for non-combustibility and found to be a fire-retardant coating that will inhibit the progress of combustion
- Extremely low moisture vapor transmission rates substantially reduce any passage of vapor through protected surfaces

APPLICATION

CAUTION! Read this entire data sheet before continuing. All surfaces must be dry, free of dirt, loose debris, oil, grease, or any substance that could contaminate or weaken the Cocoon. Close all penetrations and openings with a Cocoon Webbing coat. Webbing solution is made by mixing 1 part Webbing Agent to 3 parts COCOON 333 and agitating with an air driven mixer until it becomes a thoroughly

mixed, milky white solution. Spray out the webs until a homogenous covering has been achieved. The first application of COCOON 333 over the webbing coat should be a light, rapid pass to provide the webs some strength and prevent them from breaking when the Cocoon coating is applied. For more information concerning the Cocoon webbing coat, please refer to the Cocoon Webbing Agent data sheet.

Mix ½ gallon of Cocoon Pigment into a 5-gallon pail of COCOON 333 and mix thoroughly until all of the color is thoroughly dispersed. Spray-apply the pigmented COCOON 333 using overlapping passes of an air atomized spray gun until 25 dry mils thickness is obtained. Properly applied, the Cocoon coating should be free of any voids or pinholes. Voids and pinholes must be repaired and re-sprayed. For recommendations

| SPECIFICATIONS | |
|-----------------------|---|
| Coating Type | Polyvinyl Chloride Solution |
| VOC | 135 gms/liter |
| Pot Life | Single Component |
| Shelf Life | 12 months |
| Recommended Thickness | 3 to 5 mils d.f.t. per coat |
| Coverage | 1 gallon per 110 sq. ft. per coat x 5 coats |
| Packaging | 5-gallon pails |
| Colors | Clear or White |

COCOON 333™

Radiocontamination Protection



tions regarding equipment, contact our Technical Department.

LIMITATIONS

Proper ventilation must be provided during application for effective drying of the coating, and all applicators must wear suitable respirators.

MAINTENANCE

Damaged areas may be repaired by

cleaning surface and application of COCOON 333 as described in the Application Section.

PRECAUTIONS

Read and understand the Material Safety Data Sheet thoroughly. Make sure that all involved parties are familiar with the M.S.D.S. COCOON 333 in its liquid state is flammable, and proper safety precautions against exposure to open

flame, sparks, or other sources of ignition must be taken and strict safety rules enforced.

Keep out of reach of children and pets.

For more information, call our Technical Department.

| TECHNICAL DATA | | |
|--|-------------------------|-------------------|
| Moisture Vapor Transmission | 0.04 perms | ASTM E-96 |
| Tensile Strength | 1,500 psi | ASTM D-412 |
| Elongation | 200% | ASTM D-412 |
| Flexibility at Low Temperature | 180 deg. bend @ -35°C | ASTM C-711 |
| Shore 'A' Hardness | 70 degrees | ASTM D-2240 |
| Viscosity | 55 ku | ASTM D-446 |
| Total Solids | 29% (B.W.); 23% (B.V.) | ASTM D-1044 |
| Flashpoint | +0°F | FTMS 141A (M4293) |
| Fire Resistance | Self-extinguishing | ASTM D-568-56T |
| Dielectric Constant (1000cy/s@ 20°C, 40% R.H.) | 4.02 | ASTM D150-47T |
| Dissipation Factor (1000 cy/s@ 20°C, 40% R.H.) | 0.11 | ASTM D150-47T |
| Loss Factor (1000cy/s, 40% R.H.) | 0.44 | ASTM D150-47T |
| Drying Time | 5 minutes per coat | |
| Cleaning of Equipment | Cocoon Cleaning Solvent | |

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