

The Manufacturers of High Performance Industrial Paints

PRISOCLEAR 045

PROTECTIVE COATING FOR ALUMINIUM FORMWORK

- ◆ It is barrier coating on aluminum form work to protect from the concrete.
- ◆ This product specially design with modified resin cured with hardener, it gives strong bonding with aluminum surface.
- ◆ It has excellent chemical & water resistance which protects the alkaline attack from the concrets.
- ◆ This product give 20-25 micron coating thickness on the substrate, it helps to long life of substrate.
- ◆ Easy to apply & fast drying, Tack free within one hrs

INTRODUCTION :

This is non pigmented clear lacquer based on specially design modified resin cured with hardener. This is special product for aluminum formwork.

SCOPE :

It provides excellent protection to Aluminum Formwork. It forms a durable air drying, film over the surface. The product possesses good flexibility, adhesion, water and chemical resistance.

ALUMINUM FORMWORK :

The basic element of Formwork technology is the panel which is a framework of extruded aluminum sections, welded to an aluminum sheet. The panels are made from a high strength aluminum alloy, with the face or contact surface of the panel, from 4mm thick plate, which is welded to a framework of specially designed extruded sections, to form a robust component.

REASON OF CORROSION :

Basically cement concrete material is alkaline with high pH 12 to 13. This is react on aluminum surface, at the time of concrete making process we are adding water it is react with tricalcium silicate (present in cement) it produce calcium silicate hydrate & calcium hydroxide. The calcium hydroxide reacts with aluminum form Tricalcium Aluminates (calcium oxalate or tricalcim aluminates it does not occur in nature, but is an important mineral pahse in Portland cement.) at time of reaction release hydrogen gas then started corrosion on aluminum surface.

RESISTANCE GUIDE :

Chemical Resistance

Exposures	Splash and Spillage	Mild Fumes/Outdoor Resistance
Acids	Good	Good
Alkalis	Good	Very Good
Solvents	Good	Very Good
Salt	Good	Very Good
Water	Good	Very Good





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APPLICATION :

Stir the base thoroughly; Mix 4 parts of base and 1 part of catalyst by volume to uniform consistency. Let the mixture mature for 15 minutes. Stir it again before and during application.

Conventional Spray: If conditions dilute by adding **Prismatic - 045** thinner up to adjusts application viscosity 20-22sec. Use any standard equipment at an automising pressure of 3.2 - 3.8 kg/cm².

Airless Spray: Preferable apply without thinning. If conditions dilute by adding **Prismatic - 045** thinner up to adjusts application viscosity 20-22sec. Use any standard equipment at an automising pressure of 3.2 - 3.8 kg/cm²

Tip Size : 0.33 - 0.38 mm, Tip Pressure - 110 - 140 Kg/cm²




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