



407C | Technical Data Sheet

Medium Density Overlay (MDO)

407C Hi Flow Concrete Grade MDO

Description -

Paneltech's 407C Conform MDO is a high resin content specialty overlay. While it is cured sufficiently to reduce sticking in the press, it still densifies under heat and pressure and exhibits the desirable properties of a high flow MDO. The combination of high resin content with a resin formulated to resist the action of alkaline concrete fluids gives 407C unsurpassed performance in concrete forming applications. It gives a smooth, matte finish to concrete and is treated to release easily from forms when coated with the appropriate form oil. The higher resin content, other things being equal, will give more pours on average than a standard MDO with a lower resin content.

The paper is well saturated with resin to ensure a high form life and to prevent internal paper delamination. This high internal bond is unique to Paneltech's overlays and is quite important for concrete forming applications.

As with other Paneltech MDO products, 407C has a proprietary glueline formulation that gives it strong adhesive properties when bonding to all commonly used wood substrates. MDO 407C exceeds the requirements of the PS1-19 Voluntary Product Standard.

Features -

- ✓ 38% resin content
- ✓ Hard, abrasion and alkaline resistant surface
- ✓ Increases alkalinity resistance of concrete form
- ✓ Quality controlled continuously by online weight and volatile sensors, calibrated hourly
- ✓ Each sheet visually inspected
- ✓ Transmits an image of the greater pattern through the overlay. The overlay will darken in higher pressure areas.



Technical Data Sheet (continued)

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Specifications -

Base Paper: 132 lb Saturating Kraft (200 gsm bone dry weight)
Resin Content: 38% ± 1.0%
Weight: 215 gsm / 398 gsm
Caliper Thickness: 0.53mm (0.021 in.) (Before pressing)
Glueline Weight: 65gsm ± 5gsm
Color: Natural Kraft

Laminating Recommendations:

For best results, 407C should be applied over a smooth face, free of particulate and debris. Press cycles will vary dependent upon the species and thickness of wood, one or two step process and press temperature. Please consult the appropriate overlay press chart in this binder for actual time and temperature recommendations. Thinner panels may require a lightweight backer/MDO to help balance and add stability. Panel edges should be sealed for exterior applications. Application of form oil to the finished panel will give a top quality, ready-to-use concrete form element. For best results, we recommend field applications of Nox-Crete Form Coating, Release Agent #10, Bio-Nox, or a functionally equivalent form release. Press surfaces should be cleaned regularly to reduce the risk of panel sticking.

Applications:

Concrete Form – Smooth matte surface

Packaging -

Sheet Dimensions in (cm)	50 in (127cm) x 99 in (252cm)	50 in (127cm) x 124 in (315cm)
(Sheet width, length and sheets per unit are adjustable)		
Sheets Per Unit	1000	650
Total Area Measure sf (sm)	34,375 sf (3195 sm)	43,055 sf (4002 sm)
Gross Weight lb (kg)	2850 lbs (1292 kg)	2950 lbs (1338 kg)

Storage Recommendations -

Recommended storage conditions are 70°F (21°C) or less in a dry location with the original packaging intact. High temperature and humidity will lead to blocking. Open rolls or pallets should be repackaged in the polyethylene material provided or equivalent. Under these conditions, the expected shelf life is 6 to 12 months.