



## Dura-Max | Technical Data Sheet

### Medium-High Density Overlay (MDO)

#### *Dura-Max Concrete Grade MDO*

#### **Description -**

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

Dura-Max is unique in the ability to absorb water-based form releases. This is a very important safety feature in deck-pour applications. 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, Dura-Max has a proprietary phenolic glueline formulation that gives it strong adhesive properties when bonding to all commonly used wood substrates. Dura-Max exceeds the requirements of the PS1-19 Voluntary Product Standard.

- Features -**
- ✓ 46% resin content
  - ✓ Hard, abrasion and alkaline resistant surface
  - ✓ Increases alkalinity resistance and abrasion resistance of concrete form
  - ✓ Quality controlled continuously by online weight and volatile sensors, calibrated hourly
  - ✓ Each sheet visually inspected

#### Specifications

Base Paper: 132 lb Saturating Kraft (200 gsm bone dry weight)  
Resin Content: 46% ± 1.0%  
Weight: 215 gsm / 398 gsm  
Caliper Thickness: 0.53mm (0.021 in.) (Before pressing) Glueline  
Weight: 65gsm ± 5gsm  
Color: Natural Kraft



**T e c h n i c a l D a t a S h e e t ( c o n t i n u e d )**

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**Laminating Recommendations !**

For best results, Dura-Max 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. Use a minimum press temperature of 285°F (140°C) at 175 psi (12.33 kg/cm2) and a press cycle of 6 to 7.5 minutes. Hot stacking can increase the risk of face checking.

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. Preferred form releases include Nox-Crete Form Coating, Release Agent #10, Bio-Nox or an equivalent release system.

**Applications:** Concrete Form – Smooth matte surface

**Packaging –**

Sheet Dimensions in (cm)	50 in (127 cm) x 99 in (25)	50 in (127 cm) x 124 in (315c)
(Sheet width, length and sheets per unit are adjustable)		
Sheet Count per Unit	1000	650
Total Area Measure sf (sm)	34,375 sf (3195 sm)	27,986 sf (2601 sm)
Gross Weight lb (kg)	3050 lbs (1383 kg)	2875 lbs (1304 kg)

**Storage Recommendations –**

Recommended storage conditions are 60-70°F (21°C) 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.