



173C | Technical Data Sheet

High Density Overlay (HDO)

173C Concrete Grade

Description -

Paneltech's Conform HDO is a specialty overlay composed of a bleached kraft paper saturated with high levels of phenolic thermoset resin. Its high resin content gives a smooth surface ideally suited for use as a concrete forming surface. It gives a smooth surface finish to concrete suitable for architectural pours.

HDO 173C bonds well to an MDO cushion sheet as well as commonly used wood substrates. HDO 173C is fully APA certified for concrete forming and has undergone extensive field testing. 173C exceeds the requirements of the PS 1-07 Voluntary Product Standard. Its unique release system eliminates the residue buildup on press cauls typical of competitive products.

Features -

- ✓ Hard surface quality, highly resistant to alkalinity and abrasion from concrete
- ✓ Smooth architectural finish on concrete
- ✓ Quality controlled continuously by online weight and volatile sensors, calibrated hourly
- ✓ No release buildup on press cauls – extends the life of your press cauls
- ✓ Excellent performance in either 100/30 or 120/30 panels

Specifications -

Base Paper: 50 lb/3000 sf Bleached Saturating Kraft
Resin Content: 53% ± 1.5%
Weight: 81 gsm / 172 gsm
Caliper Thickness: 0.20mm (0.008 in.) (Before pressing)
Color: Light Yellow (multi-colored logo available on request)
Opacity: Medium

**Technical Data Sheet (continued)****High Density Overlay (HDO)***173C Concrete Grade***Laminating Recommendations:**

For best results, 173C should be applied over substrates with an exterior type glue line and have a process moisture content of not more than 8%. Press cycles may vary dependent upon press temperature. Release cauls are required between the press platens and panel overlay. To eliminate buildup and sticking, these cauls should be used only with other compatible release systems. A minimum temperature of 285°F (140°C) at 185 to 200 psi (13.0 to 14.1 kg/cm²) and a minimum press cycle of 6.5 minutes should be met. Panels require minimal cooling after pressing.

Applications:

Concrete Form
Industrial Flooring
Transportation Flooring
Other applications requiring high moisture and abrasion resistance

Packaging -

Sheet Dimensions in (cm)	50 in (127cm) x 99 in (252cm)	50 in (127cm) x 124 in (315cm)
Options	(Sheet Length, Sheet Width Sheets per Unit Adjustable)	(Sheet Length, Sheet Width Sheets per Unit Adjustable)
Sheets Per Unit	2000	1000
Total Area Measure sf (sm)	34,375 sf (3195 sm)	27,986 sf (2601 sm)
Gross Weight lb (kg)	2437 lb (1108 kg)	1526 lb (694 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.