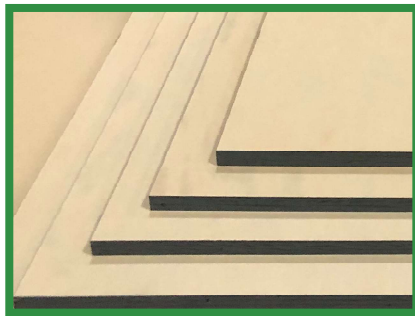


High Density Overlay (HDO) Concrete Form



MUTUAL PLYWOOD CORPORATION

All Hardel HDO is manufactured using two step processing on a state-of-the-art chrome platen press, which produces the most consistent and smoothest possible finishes. Our overlays feature a high density of phenolic resin specially designed to meet the demands of modern concrete mixes. They feature an even density distribution profile and a strong internal bond to resist internal delamination and overlay shear.



Benefits of HDO Concrete Form

- Suitable for Architectural Finishes
- Greater Compatibility with Hot Concrete Mixes, Self Consolidating Concrete, Accelerators, Plasticizers, Flyash and Increased Alkaline Additives than BBOES or MDO Concrete Form
- Maximum Reuse
- Easy and Fast Form Building and Stripping to Conserve Time and Labor
- Minimal Form Scraping Between Uses
- Resists Scuffs, Mars and Moisture Penetration

PRODUCT	WORKING FACES	FACE	BACK
100/30	1	1 x MDO (Cushion) 1 x HDO	1 x HDO -
100/100	2	1 x MDO (Cushion) 1 x HDO	1 x MDO (Cushion) 1 x HDO
120/30	1	1 x MDO (Cushion) 2 x HDO	1 x HDO -
120/120	2	1 x MDO (Cushion) 2 x HDO	1 MDO (Cushion) 2 x HDO

100 / 30

100 / 100

120 / 30

120 / 120

PANEL SPECIFICATIONS

**Meets APA PS 1-09
Structural I - Group I Species**

Panel Face: Douglas Fir Standard
Hardwood by Request

Processing: Two Step

Glue Bond: Waterproof

Size: 4x8 through 4x10

Faces: B Grade or Better

Core: Tightly Fitted Solid Core

NAUF: No Added Urea
Formaldehyde

OVERLAY / FACTORY TREATMENTS

Working Faces: One or Two Working
Faces

Wood Grain Transfer: Minimal

Gloss of Concrete Surface: Gloss

Sugaring: None

Release Agent: Not Factory Treated
with Release Agent

Edge Sealing: Factory Edge Seal Applied

Resin: Specially Formulated
Thermosetting Phenolic Resin

Thickness	Ply Count	Pieces/Unit
1/2"	5	60
5/8"	7	50
3/4"	7	40
1 1/8"	9	30

Continuous, Non-Scarfed, Panel Lengths from 8 to 10 feet

Maintenance Recommendations

Our panels meet or exceed APA standards and are designed for multiple reuses. Factors that affect panel longevity include the amount of time exposed to wet concrete, concrete composition, maintenance of equipment used with the panel and general handling of the panel. Panel wear varies according to these factors not the number of uses. To achieve the greatest reuse please consider the guidelines below:

Application of a high quality, chemically reactive, release agent before each use will extend the useful life of the panel by inhibiting moisture penetration and improving the release of the panel from the finished concrete.

To reduce moisture absorption and minimize swelling, re-seal all cut edges and penetrations in the panel face with an appropriate sealant.

Proper panel handling will prolong the life of the panel. Wood wedges are recommended rather than metal bars or pries, to separate the form from concrete. Form panels should be lowered rather than thrown or dropped to avoid face and edge damage.

143 Maurin Road
Chehalis, WA 98532
Sales@Hardel.com
1-800-562-6344
(Fax) 360-740-9570

