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Reconfiguring concrete slabs manufactured using the hermetic production process and combining them with wet cast products

Short cycle times and highly compacted concrete block products are just two of the benefits of hydraulic presses. However, the suitability of a hermitic turntable press is often limited to paving slabs. The current, widely distributed product range includes fine-grained exposed aggregate concrete products and smooth slabs with a ground or finely burnished surface.

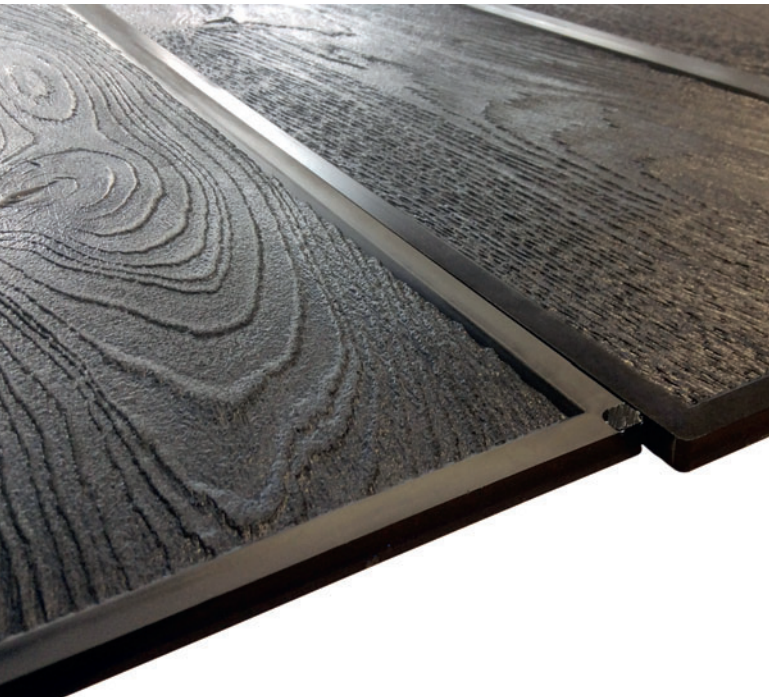
In the hydraulic press process, a relatively liquid concrete layer is pressed into an earth-moist backing layer. Like wet cast products, the properties of the first concrete layer and subsequent block surface make it suitable for reproducing very fine textures.

This is exactly where Wasa comes in with its highly wear-resistant, polyurethane hermetic form liners. The form liners are manufactured to Shore hardness A-70 using a 2-component

casting resin developed especially for this application. A 2-mm thick, steel sheet behind the form liners ensures very high dimensional form stability. This means that the polyurethane form liners can be placed in any hermetic turntable press.

Additional benefits of polyurethane form liners are:

- accurately detailed reproduction of abstract and natural surfaces resulting from a closed, non-porous polyurethane layer
- reduced adhesion forces on the form liner surface
- improved demoulding due to the active recovery capacity of the PUR systems used
- colours look more brilliant and saturated due to sealed concrete surface
- numerous possibilities in design, size and feel
- the option of manufacturing for large-format concrete slabs



Wasa hermetic form liners with wood grain. The form liners are manufactured from highly wear-resistant polyurethane to Shore hardness A-70 and seal the mould frames during the production process.



Concrete block slab in 400x400 mm format with Jura Slate surface. Textures with an impressive visual appearance are reproduced with Wasa polyurethane form liners in the hermetic press process.



Example of a wetcast mould for a flowerpot design element. Planners and architects no longer consider the various cast stones to be isolated from each other. Slabs are upgraded and combined with facade and design elements.

Wasa has a free standard programme consisting of one slate and one flamed granite surface in standard form liner dimensions of 421x421 mm and 621x421 mm. Concrete block products manufactured with Wasa polyurethane form liners have already been added to the delivery programme of manufacturers throughout Europe and supplied to landscapers and dealers. Wasa does not charge a license fee for the design. However, the trend is developing toward individual architecture projects. Here, Wasa works closely with concrete plants and product development. Concrete slabs in large quantities with form liner dimensions up to 1,021x1,021 mm are being developed on the hermetic systems. Block steps, facade and design elements, bed and pool edging in the same design and feel serve in combination and as product expansion. These concrete products can then be manufactured using the wet cast process. For customer-oriented projects, Wasa guarantees customer protection to concrete plants.

Wasa offers modular design flexibility with the fusion of wet-cast moulds and polyurethane hermetic form liners. The concrete product manufacturer can produce custom, integrated projects in the synthesis of both production processes. Wasa draws on extensive experience in mould and tool engineering during project consultation and discusses the most economical solution and application with the customer. ■

FURTHER INFORMATION



**Competence
Leadership.**

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