



Guide to Form Release Agents

The objective of a form release is to break or prevent the bond between the concrete form & the freshly placed concrete. Form releases can also reduce the surface tension at the form interface, allowing air to migrate upward helping to reduce the bug holes. In addition, form releases can prolong the life of the forms by reducing the required cleaning. Quality form releases are formulated to not add or subtract anything from the concrete mix design.

Three Basic Types Of Form Release

- **Reactive Release**
Uses fatty acids that produce a chemical reaction when in contact with alkali (concrete) that produces a soap like residue.
- **Buffered Release**
Not as chemically reactive & more 'forgiving' if over applied.
- **Barrier Release:**
Creates a barrier to adhesion without fatty acids or reaction products.

Application Overview

- The forms need to be dry, clean and free of rust. Rust and dirt will transfer to the concrete surface.
- Apply form releases only during dry weather.
- Apply with low pressure spray using a wide angle, low flow, fan-type spray nozzle. Do not use a spray nozzle designed for curing compounds, it will over apply the material.
- On smooth, dense forms, i.e., steel or aluminum, the best performance will be achieved by spraying the form release followed by wiping down the forms with a clean, soft cloth.
- Do not over apply. Over application can result in surface dusting and the formation of bug holes

- Dayton Superior recommends treating new regular plywood with a lime water solution prior to its first use in forming. This solution will neutralize the naturally occurring wood sugars in the plywood.
- New aluminum forms often require seasoning prior to their first use. Refer to the manufacturer's instructions.

All NEW wood forms require a heavy application of form release prior to their first use. This application should be heavy enough to saturate the wood. Multiple coats of form release are often necessary to accomplish this saturation, with at least 5 to 6 hours between coats.

NOTE:

- Dayton Superior Form Releases are non-staining non-transferring when used per the instructions in the current technical data sheet.
- Contact Dayton Superior Technical Services for questions on form liners and block-out materials.

Dayton Superior Form Releases

Reactive:

Clean Strip J1A

- VOC of less than 250 g/L
- **MAS "Certified Green"**

Clean Strip J1A Winter Grade

- VOC of less than 100 g/L
- Sprayable in colder conditions

Clean Strip J100 VOC

- VOC of less than 100 g/L
- **MAS "Certified Green"**

Clean Strip Ultra J3

- VOC of less than 100 g/L
- Premium form release for architectural finishes

Clean Strip J2

- VOC of less than 450 g/L.



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Buffered:

Magic Kote

- VOC of less than 100 g/L.

Barrier:

Clean Strip J1EF

- VOC of 0 g/L.
- Water-Based
- Biodegradable
- Certified to NSF/ANSI 61 by WQA
- **MAS** “*Certified Green*”
- LEED- CDPH V1.2 Compliant