

FORM RELEASE



FORM TREATMENT

Guide

Before application, forms need to be dry, clean and free of rust. Rust and dirt will transfer to the concrete surface. We often recommend 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.

Apply form releases only during dry weather. Apply with a low pressure spray using a wide angle, low flow, flat, fan type spray nozzle. Do not use a spray nozzle designed for curing compounds, it will over apply the material. 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 forms. Multiple coats of form release are often necessary to accomplish this saturation, and we recommend waiting at least 5 to 6 hours between coats. On smooth, dense forms, i.e. steel or treated 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. Bugholes are caused by the "curtaining" formed by the excess release retarding the vertical movement of the entrapped air as the concrete is consolidated; rather than rising, the entrapped air follows the line of the "curtaining" creating bugholes. Neutral releases will not cause as much buildup on forms nor will they cause dusting as the reactive release will in the event of over application.

Avoid over spraying onto reinforcing steel; it may act as a bondbreaker on reinforcing steel.

All form releases do not behave the same when exposed to weather. In heavy rains, for example, some light bodies form releases will wash off the forms. We recommend checking the form release you are using for its "body" or thickness.

Masons promotes 2 types of releases:

Reactive releases that contain fatty acids that react with the alkali in the concrete to form a soap, a process known as saponification. The thin film of soap created allows the form to easily release from the concrete.

Neutral releases contain fatty acids that is partially neutralized. These are more forgiving than reactive should they be over applied.

The following section has these 2 types of releases broken down into sections for your identification. Also included is a chart to show compatibility with your form surface. If you have any questions that are not covered in this section, call your nearest Masons Supply branch for more information.





M A S C O . N E T

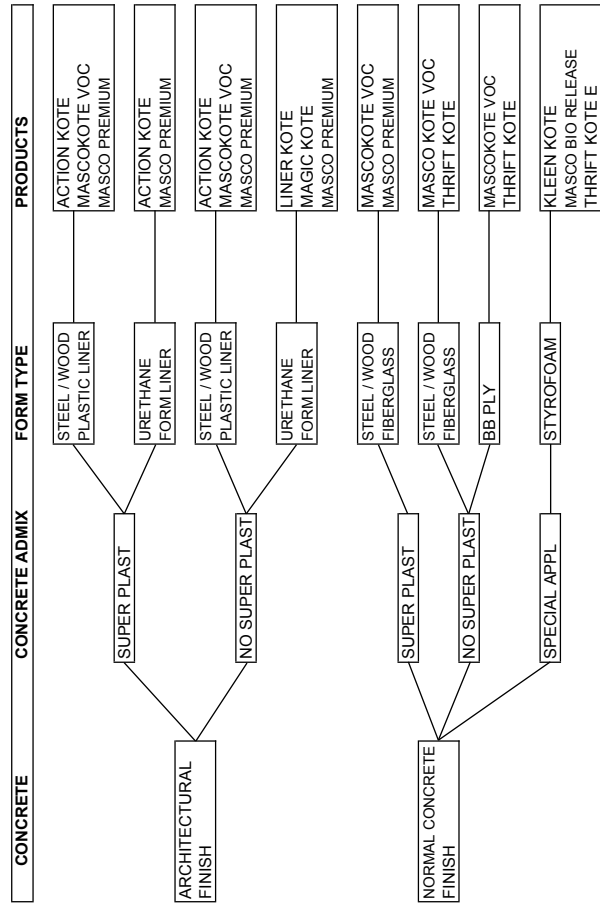
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FORM RELEASES		COMPATIBLE SURFACES																			
CODE	PRODUCT	BASE	SIZE UNIT	APP RATE	RAIN RESIST	SUPER PLAST	MAX A FORM	STEEL PLY	DECK	PLY LINER	PLAST LINER	URE LINER	TREAT ALUM	BB PLY	HDO PLY	MDO PLY	160 F RESIST	STEEL	MASONRY	STYRO FOAM	APPR
NEUTRAL RELEASE																					
SY 55GMK	MAGIC KOTE	PETROLEUM OIL	5.55 GAL	1-3 MSF	YES	NO	YES	YES	NO	YES	YES	YES	NO	NO	YES	NO	YES	YES	NO	NO	MSDOT
SY 55GLK	LINER KOTE	MINERAL OIL	5.55 GAL	750 SF	YES	NO	NO	NO	NO	YES	YES	YES	NO	NO	YES	NO	YES	YES	NO	NO	MSDOT
REACTIVE RELEASE																					
PCS KK	KLEEN KOTE	EMULSION CONC	1.5 GAL	1-2 MSF	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	MSDOT
MS 55GBR	MASCO BIO RELEASE	EMULSION	5.55 GAL	1-1.5 MSF	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	MSDOT
MS 55GMKP	MASCO KOTE PREMIUM	MINERAL OIL	5.55 GAL	1-3 MSF	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	MSDOT
SY 55GTK	THRIFT KOTE	PETROLEUM OIL	5.55 GAL	1-3 MSF	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	
SY 55GTKE	THRIFT KOTE E	EMULSION	5.55 GAL	.75-1 MSF	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	
SY 55GAK	ACTION KOTE	MINERAL OIL	5.55 GAL	1-3 MSF	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	
MS 55GMK	MASCO KOTE VOC	MINERAL OIL	5.55 GAL	1-3 MSF	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	

THIS CHART SHOULD BE CONSIDERED A GUIDE ONLY
CONSULT SPECIFICATIONS SHEETS FOR COMPLETE TECHNICAL,
INSTALLATION AND SURFACE PREP PROCEDURES

APPLICATIONS:
RELEASE AGENTS FOR PORTLAND CEMENT
MANY RELEASES FOR DIFFERENT FORMING SURFACES AVAILABLE



FORM RELEASE



FORM TREATMENT

Neutral

Liner Kote

DESCRIPTION: Is a chemically neutral release agent in a mineral oil carrier. It is water insoluble, low sulphur and contains no waxes. Improves release of form liner from concrete. Reduces concrete buildup on form liner and formwork. Provides conditioning of urethane elastomer form liner. Finished concrete surface is free from residue, stain or discoloration.

APPLICATION: Provides a high carbon content on the form surface that is resistant to concrete adhesion. Spray application is recommended with spray cans or power sprayers. The spraying angle must be varied to ensure proper Coverage of all form liner pattern features.

COVERAGE:
Rate is approximately 500 ft²/gal. depending on the form liner material and pattern texture.

No.	Size
SY 5GLK	5 gal. pail, 50 lbs.

Magic Kote

DESCRIPTION: Magic Kote is a chemically neutral release agent in a petroleum oil carrier. It is water insoluble, low sulphur and contains no waxes. Improves release of formwork from concrete. Reduces concrete buildup on formwork. Reduces cleaning of formwork.

APPLICATION: Provides a high carbon content on the form surface that is resistant to concrete adhesion. Spray application is recommended, with spray cans or power sprayers. But brush, roller or flooding techniques may be used as alternative application methods.

COVERAGE:
Alum. Plastic, Fiberglass
2,000 ft²/gal.

Medium Density Plywood
1,500 ft²/gal.

BB Grade Plyform
1,200 ft²/gal.

Dimensional lumber
1,000 ft²/gal.

No.	Size
SY 5GMK	5 gal. pail, 50 lbs., 36/pallet
SY 55GMK	55 gal. drum, 550 lbs.



FORM RELEASE

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Neutral

Steelguard SP

DESCRIPTION: A Nonstaining form release agent formulated especially for production of high visual impact architectural precast concrete. It reacts with moisture in air to form polymerized films that are highly water and heat resistant. It produces a film that adheres to forms is not easily removed by abrasion and not affected by water or steam. This unique class of form coating offers superb release characteristics for pre-cast applications where weather exposure, abrasion, and steam leave conventional form coatings ineffective.

APPLICATION: Recommended in hard to release situations and where abrasion can be a problem. Offers economical usage as a multiple release agent. Effective as a protective coating for long term storage of steel casting forms and pans. Effective on fiberglass forms and is recommended for use on tunnel forms as well. It is ready to use and requires no mixing, do not dilute. May be applied by all conventional methods; however, spraying is the most economical method of application. It may be applied in a very thin film on the surface of the form and allowed to "dry" on the form before pouring, usually 20 minutes. Forms should be clean and dry prior to application. When architectural or exposed surfaces are involved, it is important to remove all buildup, dirt, rust, mill scale and existing form oils prior to application.

APPLICABLE STANDARDS:

Meets Corp of Engineers CEGS-03300. Section 10.8 Form Coating. Navy Dock and Piers 56359.

COVERAGE:

Un-coated plywood
800 ft²/gal.

Sealed or phenolic finished plywood
1,500 ft²/gal.

Steel Casting Beds
1,900 - 3,000 ft²/gal.

Aluminum
1,600 ft²/gal.

Fiberglass
1,500 ft²/gal.

No.	Size
UN 5GSP	5 gal. pail, 50 lbs., 36/pallet

Reactive

Action Kote

DESCRIPTION: Action Kote is a chemically active release agent in a mineral oil carrier. It is water insoluble and contains no waxes. Improves release of formwork from concrete. Reduces concrete buildup on formwork. Reduces cleaning of formwork.

APPLICATION: Provides a high carbon content on the form surface that is resistant to concrete adhesion. Spray application is recommended, but brush or roller techniques may be used as alternative application methods. Protects wood formwork against water damage and protects steel formwork against corrosion.

COVERAGE:

Alum, Plastic, Steel 3,000 ft²/gal.
High Density Plywd 2,000 ft²/gal.
BB Grade Plyform 1,500 ft²/gal.
Dimensional lumber 1,200 ft²/gal.

No.	Size
SY 5GAK	5 gal. pail, 50 lbs., 36/pallet
SY 55GAK	55 gal. drum, 550 lbs.

FORM RELEASE



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Reactive

Masco Bio Release

DESCRIPTION: Using the latest micro-emulsion technology, Mascokote Bio Release is an innovative, 100% natural, organic chemical release agent. Provides quick, easy release and leaves an architectural bondable concrete surface.

APPLICATION: Ideal for sensitive environmental situations such as bridge framework over rivers and streams or potable water reservoirs. Chemically releases concrete from plywood, steel, aluminum, polystyrene, and fiberglass forms and formliners. Prevents concrete build-up on all equipment. Cleans and reconditions forms. Helps eliminate build-up and bug holes.

COVERAGE:
Steel, Aluminum, Plastic, High Density Plywood:
1,000–1,500 ft²/gal.

Medium Density Plywood, Paper Column Forms:
1,000–1,250 ft²/gal.

BB Grade Plywood:
1,000 ft²/gal.

Rough Sawn Lumber, Straited Plywood:
First use, 2 coats: 500 ft²/gal./coat
Subsequent uses: 1,000 ft²/gal.

No.	Size
MS 5GBR	5 gal. pail, 50 lbs., 36/pallet
MS 55GBR	55 gal. drum, 550 lbs.

APPLICABLE STANDARDS: Corps of Engineers CEGS-03300, Section 10.8 Form Coating. Navy Dock and Piers 56359. V.O.C. Compliant. 100% Biodegradable.

Mascokote Premium

DESCRIPTION: A reactive form release with a mineral carrier that leaves an architectural or high visual impact concrete surface. Manufactured with virgin oil and organic chemicals which react with the concrete to prevent adhesion and provide a quick and easy release. Films rapidly on all form surfaces, not slippery, prevents accumulation of dust, and cannot be removed by normal rain showers. Will not break down with steam. Water insoluble, contains no kerosene, diesel, silicone or waxes to reduce effectiveness and damage formwork. It is a thin amber liquid that remains fluid at subfreezing temperatures and can be stored indefinitely. Produces architectural concrete by eliminating bug holes caused by thick form oils. Provides a quick, easy release without staining, discoloration, or pitting. Leaves no residue or cement dust on the concrete surface when properly applied. Concrete is left with an

architectural surface and ready for application of curing compounds, sealers, and coatings. When any material is to be applied on top of the concrete, follow the application instructions of the material manufacturer.

Coverage:
Steel, Plastic, Fiberglass: 2000 sq ft/gal
Conditioned Aluminum: 2000 sq ft/gal
HDO Plywood: 2000 sq ft/gal
MDO Plywood: 1500 sq ft/gal
Dimensional Lumber: 1000 sq ft/gal
BB Grade Plywood: 1000 sq ft/gal

No.	Size
MS 5GMKP	5 gal. pail, 50 lbs., 36/pallet
MS 55GMKP	55 gal. drum, 550 lbs.

APPLICATION: Specially formulated for use on aluminum and steel forms, but also effective on plywood, composite forms, plastic and urethane formliners. Ideal for architectural precast.

APPLICABLE STANDARDS: Corps of Engineers CEGS-03300, Section 10.8 Form Coating. Navy Dock and Piers 56359. V.O.C. Compliant.





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Mascokote VOC

DESCRIPTION: A chemical active release agent in a mineral oil carrier for concrete forms which effectively prevents bonding of concrete to the form. For use in steel, plywood, and treated aluminum forms. Manufactured with virgin oil and organic chemicals which react with the concrete to prevent adhesion and provides a quick and easy release. This quick, easy release is provided without staining, discoloration or pitting and leaves no residue or cement dust on the concrete surface if properly applied. Concrete is left with an architectural surface ready for application of curing compound, sealer, bondable for plaster, mastics or paints when used in accordance with manufacturer's instructions.

APPLICATION: Forms should be free from dirt, hardened concrete and foreign matter. Release agent is ready to use direct from container. Can be applied with a sprayer, roller or brush at all working temperatures. Apply a thin film for maximum protection and economy. Spray areas uniformly. Over application creates dusting. Prior to coating plywood forms, apply one or two heavy coats to edges for waterproofing protection. When subsequent material is to be applied to the concrete, follow the application and preparation instructions of the material manufacturer.

APPLICABLE STANDARDS:
Corps of Engineers CEGS-03300, Section 10.8, Navy Dock, and Piers 56359, VOC Compliant.

COVERAGE:
Steel, Plastic, Fiberglass: 2500 sq ft/gal
Conditioned Aluminum: 2500 sq ft/gal
HDO Plywood: 2500 sq ft/gal
MDO Plywood: 2000 sq ft/gal
Dimensional Lumber: 1500 sq ft/gal
BB Grade Plywood: 1500 sq ft/gal

No.	Size
MS 5GMK	5 gal. pail, 50 lbs., 36/pallet,
MS 55GMK	55 gal. drum, 550 lbs.

Thrift Kote

DESCRIPTION: Thrift Kote is a reactive type form release agent in a petroleum oil. It is water insoluble, low sulphur and contains no waxes. Improves release of form work from concrete. Reduces concrete build up on formwork. Reduces cleaning of formwork.

APPLICATION: Provides a high carbon content on the form surface that is resistant to concrete adhesion. Spray application is recommended, and can be made with sprayer cans or power sprayers, but brush or roller techniques may be used as alternative application methods.

COVERAGE:
Alum, Plastic, Steel
3,000 ft²/gal.

High Density Plywd
2,000 ft²/gal.

BB Grade Plyform
1,500 ft²/gal.

Dimensional lumber
1,200 ft²/gal.

No.	Size
SY 5GTK	5 gal. pail, 50 lbs., 36/pallet
SY 55GTK	55 gal. drum, 550 lbs.