



nox-crete®

chemical solutions to concrete problems

# TRAINING

# EFCO FORM GUARD & FORM RELEASE



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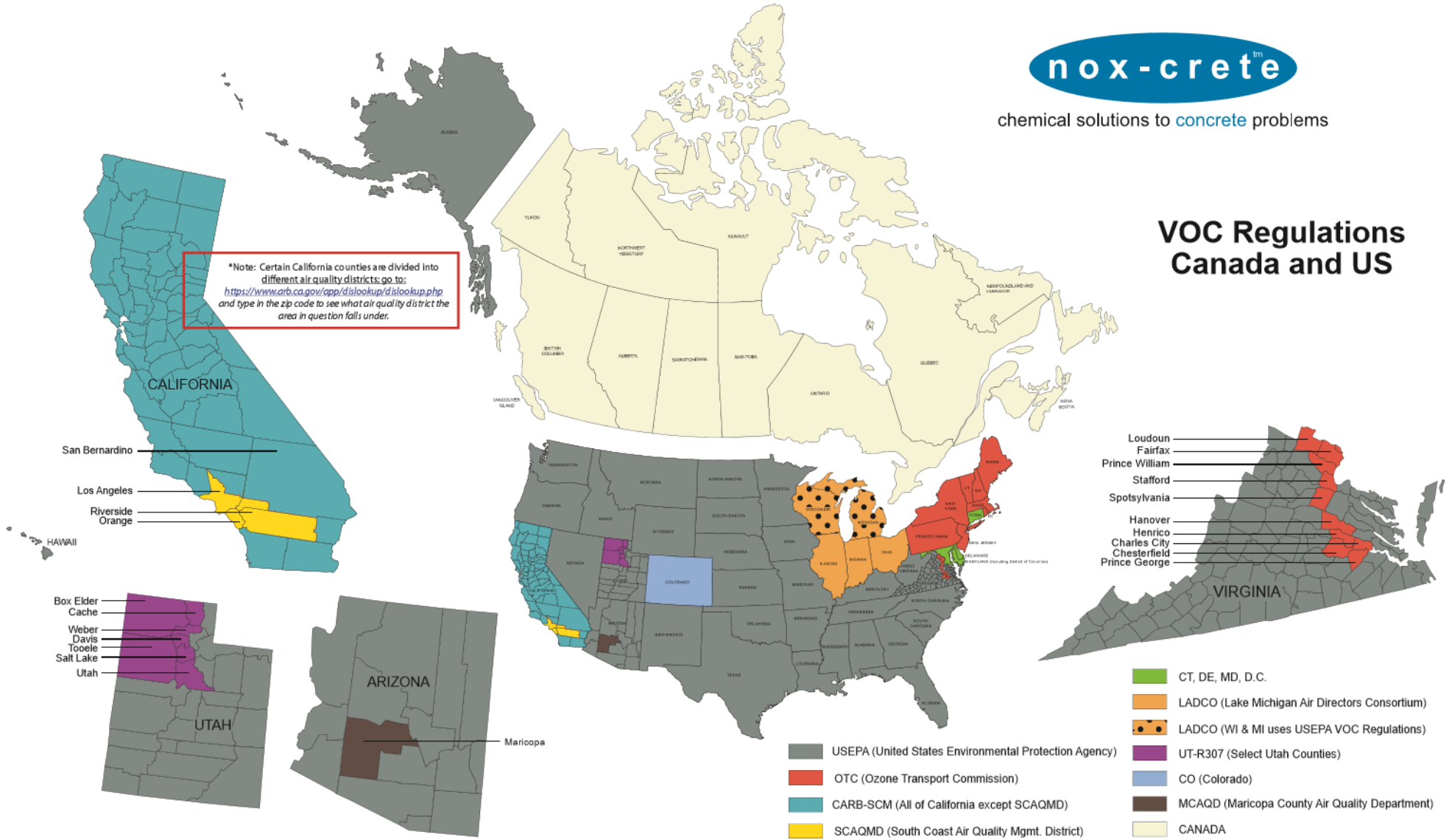
Georgia

Michigan

# VOC Map of US and Canada



chemical solutions to concrete problems



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chemical solutions to concrete problems



# Nox-Crete Product Overview for EFCO

## Available from Nox-Crete

- Kem-Ex-It Plus is used for removing rust from steel.
- Blast-Off will soften concrete build-up when applied with foaming sprayer above 50 F.
- Blast-Off Neutralizer applied with foaming sprayer to neutralize steel surface prior to coating or release agent application.
- Nox-Crete Bio-Clean Ready 6 to clean **EFCO Form Guard** and contaminants off surface. Can also be used to clean forms prior to EFCO Form Guard application in warehouse.

## Available from EFCO

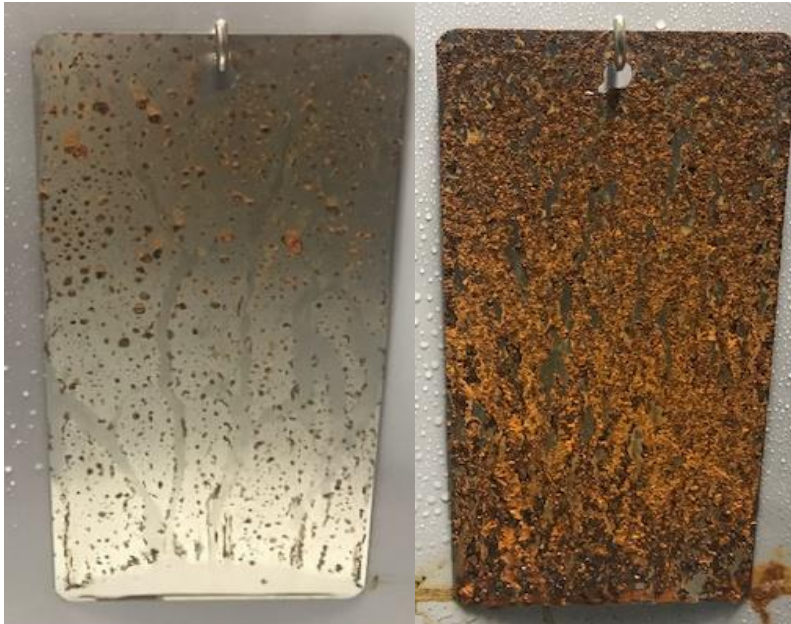
- **EFCO Form Guard** to designed to protect steel for a minimum 6 months (5 months indoor and 1 month outdoor).
- **EFCO Form Release** is 250 g/L VOC, reactive and barrier properties with rust inhibitor to ensure better performance than competitive form oils.
  - Up to 3 weeks rust prevention.
  - Link to EFCO Form Release: [How to apply EFCO Form Release](#)





# EFCO Form Guard Performance

No Preventative



Day 1

Day 14

R - 1 Formulation



Day 1

Day 14

EFCO Form Guard



Day 1

Day 14

Results of an aggressive 14 day salt water spray test.

The heavier the applied **EFCO Form Guard** film, the longer the rust prevention.

# Setting Concrete Finish Expectations

- Scenario 1: When architectural finish is needed, use citrus degreaser or Bio-Clean Ready 6 to remove Form Guard, then apply Form Release and wipe with a micro-fiber mop.
- Scenario 2: When first pour is not important or an architectural finish is not needed, finish can still be pretty good by using a cloth rag to wipe the EFCO Form Guard off, then apply EFCO Form Release.
- Scenario 3: When concrete finish is not exposed or important on first pour, customer can do nothing except apply EFCO Form Release or not. Result will likely be black or dirty concrete appearance.

# Architectural finish is Required

Use citrus degreaser or Bio-Clean Ready 6 to remove Form Guard, then apply Form Release and wipe with a micro-fiber mop.





# Architectural Finish Not Required on 1<sup>st</sup> Pour

Finish can still be pretty good by using a cloth rag to wipe the EFCO Form Guard off, then apply EFCO Form Release.





# Concrete Finish is Not Exposed or Important on 1<sup>st</sup> Pour

Customer can do nothing except apply EFCO Form Release or not and will end up with black or dirty concrete.



## Field process when **EFCO Form Guard** is on the forms

1. Concrete finish **is not important** on first use
  - i. Apply **EFCO Form Release** at 800 – 1,500 sf/gallon.
  - ii. Wet microfiber mop or rag with **EFCO Form Release** and wipe after application.
2. Concrete finish **is important** i.e. architectural or exposed concrete on 1<sup>st</sup> form use
  - i. Clean form faces using citrus degreaser such as Bio-Clean Ready 6 followed by rinse with water.
  - ii. Apply **EFCO Form Release** at 1,000 – 1,500 sf/gallon when forms are smooth and clean.
  - iii. Wet microfiber mop or rag with **EFCO Form Release** and wipe after application.

## Field process for applying **EFCO Form Release** to forms

1. Apply **EFCO Form Release** at 800 – 1,500 sf/gallon.
  - i. Use Chapin or equivalent low pressure spray equipment with 95 – 0.5 (0.5 gallon/min) spray tip.
  - ii. Use Nox-Crete Perfect Sprayer with 40 psi CF valve and 8002 LP or 8003 LP spray tip.

# When concrete finish is not important on the 1<sup>st</sup> pour:

## What to do prior to 1<sup>st</sup> pour with **EFCO Form Guard** on the form:

1. Apply **EFCO Form Release** at 800 – 1,500 sf/gallon.
2. Wet microfiber mop or rag with **EFCO Form Release** and wipe after application. Wiping before 1<sup>st</sup> pour will help Form Guard come off the form.





# When concrete finish is not important after the 1<sup>st</sup> pour:

## What to do after 1<sup>st</sup> pour:

1. Scrape any concrete build-up.
2. Wipe debris off forms using burlap or rags.
3. Apply **EFCO Form Release** at 800 – 1,500 sf/gallon.

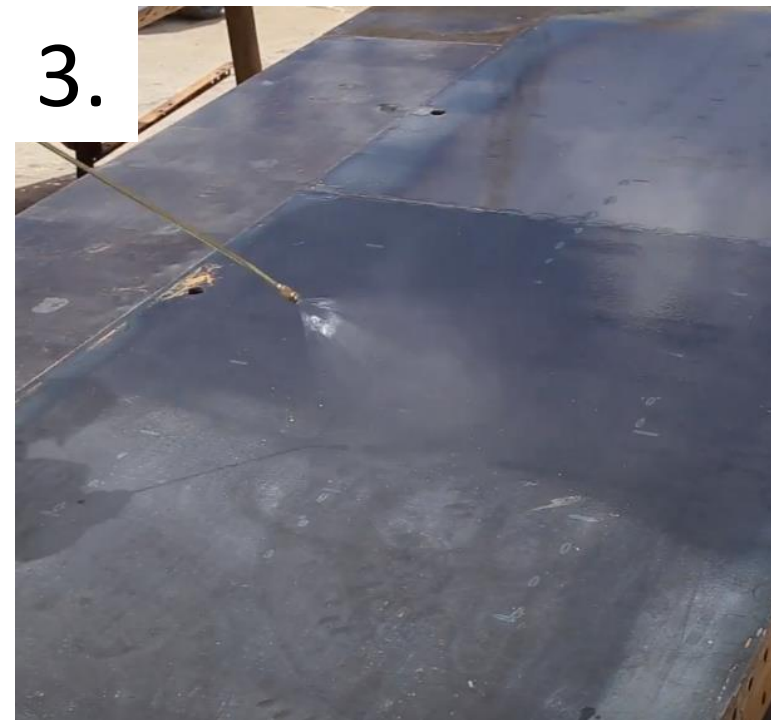
1.



2.



3.



# Difference in wiping EFCO Form Release compared to not wiping EFCO Form Release, on top of Form Guard



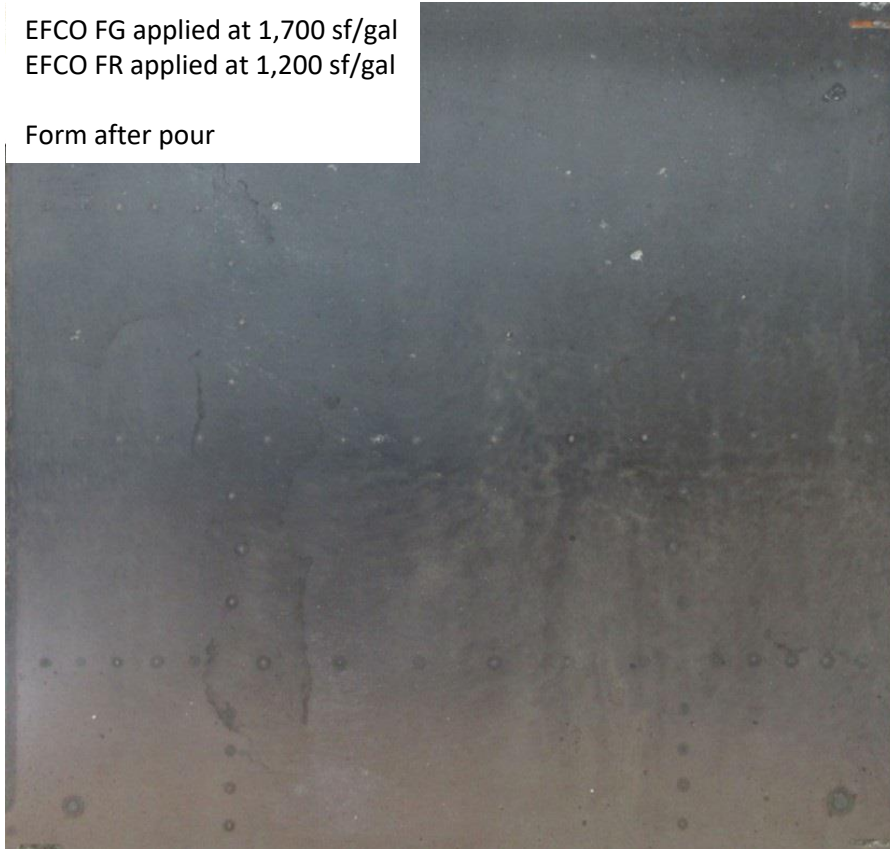


# What concrete finish and form can look like after the 1<sup>st</sup> pour:

**EFCO Form Guard** factory application with **EFCO Form Release** field application. Darker concrete is where there was more FG was on the form.

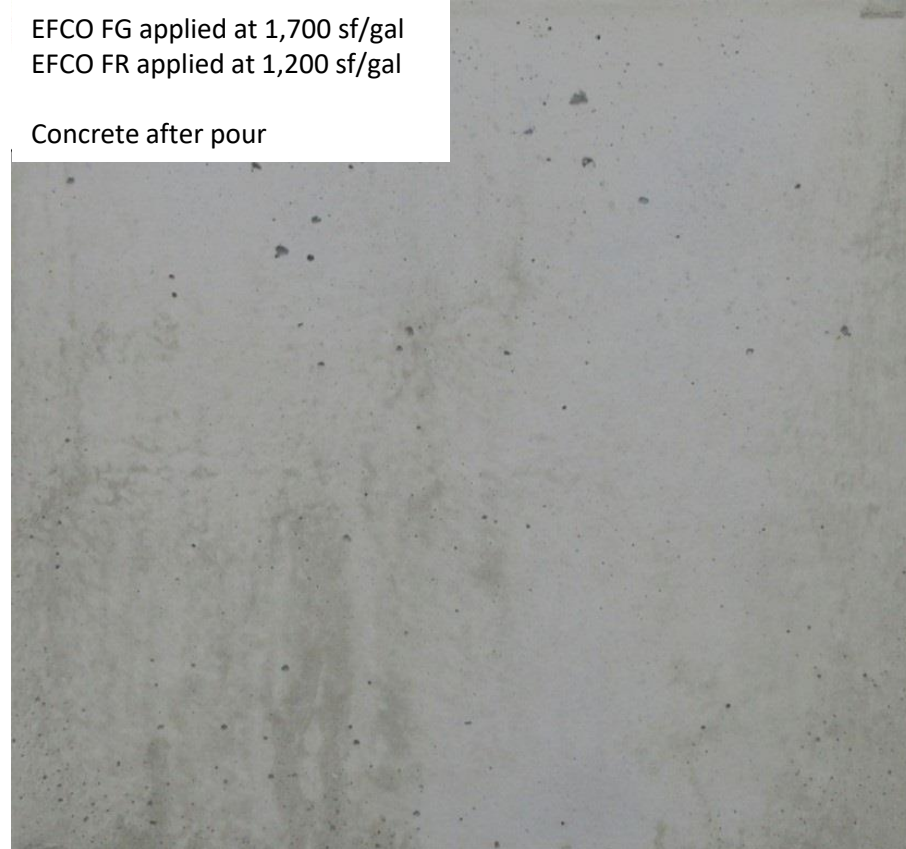
EFCO FG applied at 1,700 sf/gal  
EFCO FR applied at 1,200 sf/gal

Form after pour



EFCO FG applied at 1,700 sf/gal  
EFCO FR applied at 1,200 sf/gal

Concrete after pour



Concrete will look cleaner if **EFCO Form Release** is wiped after application.

Concrete looks better on right side where there was some abrasion.

Carbon that settles on the form during manufacturing process will transfer and cause the concrete appearance to be much darker than pictured.



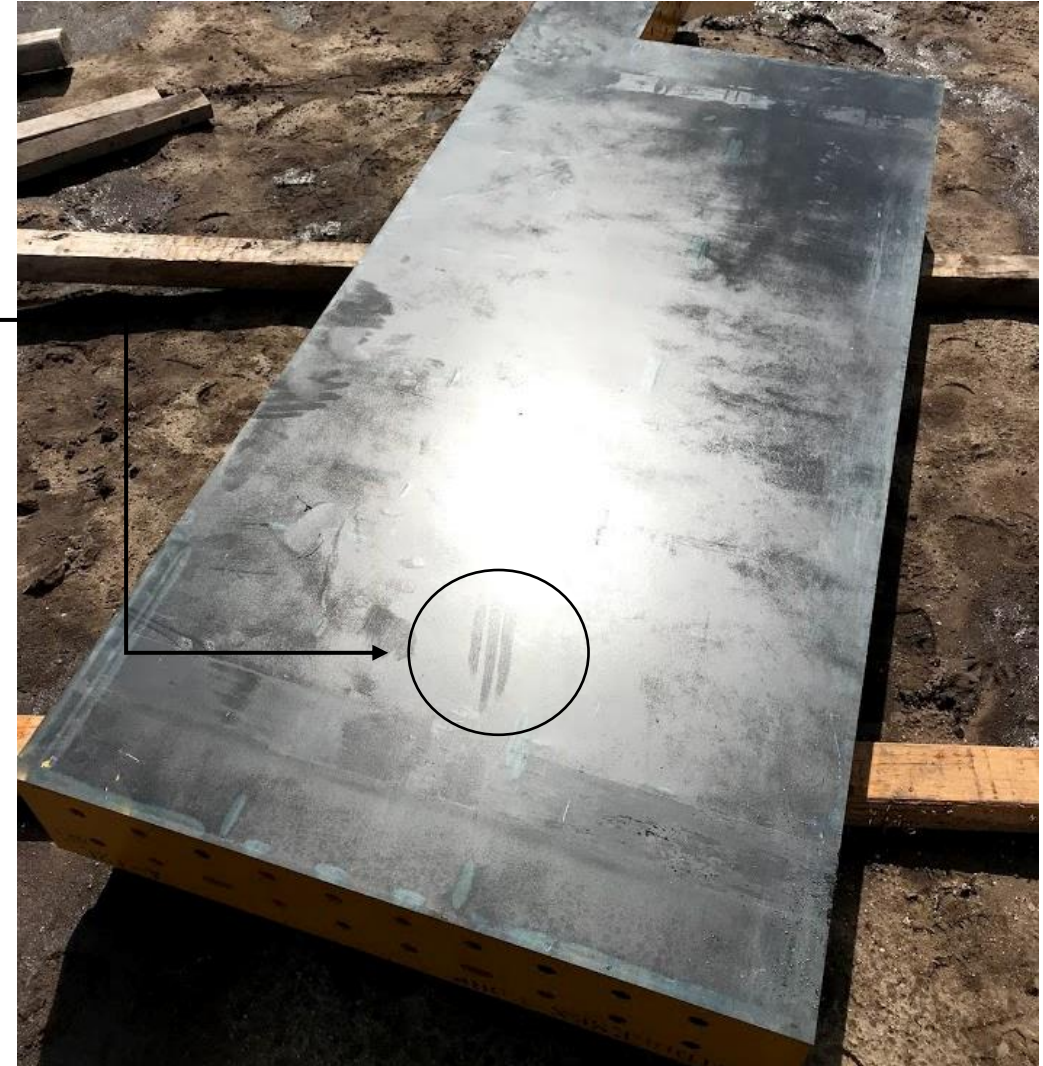
# Changing gears: When concrete finish IS important on the 1<sup>st</sup> pour:

## What to look for:

- **Form Guard** application is evident on forms, may see carbon (will appear black) on fingers after wiping **Form Guard** layer. Cleaning needed when you see this.
- If forms are clean, form surface will be smooth, not gummy or greasy and cleaning may not be needed.

## What to do:

- Use citrus degreaser such as Bio-Clean Ready 6 to remove Form Guard and contaminants on form surface.
- Apply **EFCO Form Release** at 1,200 – 1,500 sf/gallon.
- Over application of **EFCO Form Release** generally does not hurt results as you will see in later slide.



# When concrete finish IS important on the 1<sup>st</sup> pour:

## Steps:

1. Pour Bio-Clean Ready 6 or citrus degreaser into any low pressure sprayer equipped with Viton o-rings, gaskets, and seals.
2. Spray on forms.





# When concrete finish IS important on the 1<sup>st</sup> pour:

## Step:

3. Immediately agitate Bio-Clean Ready 6 using a broom  
OR  
Alternatively, let Bio-Clean Ready 6 dwell on form for 2 minutes followed by 1,500 psi or greater pressure wash.





# When concrete finish IS important on the 1<sup>st</sup> pour:

## Steps:

4. Rinse using water.
5. Squeegee to accelerate the form drying and to minimize the potential for flash rusting  
OR  
wipe form with clean rags to dry.



# When concrete finish IS important on the 1<sup>st</sup> pour:

## Once forms are dry, apply EFCO Form Release

1. Application rate should be 1,200 – 1,500 sf/gallon when forms are smooth and clean.
2. Use Chapin or equivalent low pressure spray equipment with 95 – 0.5 (0.5 gallon/min) spray tip.
3. Use Nox-Crete Perfect Sprayer with 40 psi CF valve and 8002 LP or 8003 LP tip.
4. Wet microfiber mop or rag with EFCO Form Release and wipe after application.



# EFCO Form Release results on clean Hand-E-Form

EFCO Form Release

Form after pour

800 sf/gallon



EFCO Form Release

Concrete finish

800 sf/gallon



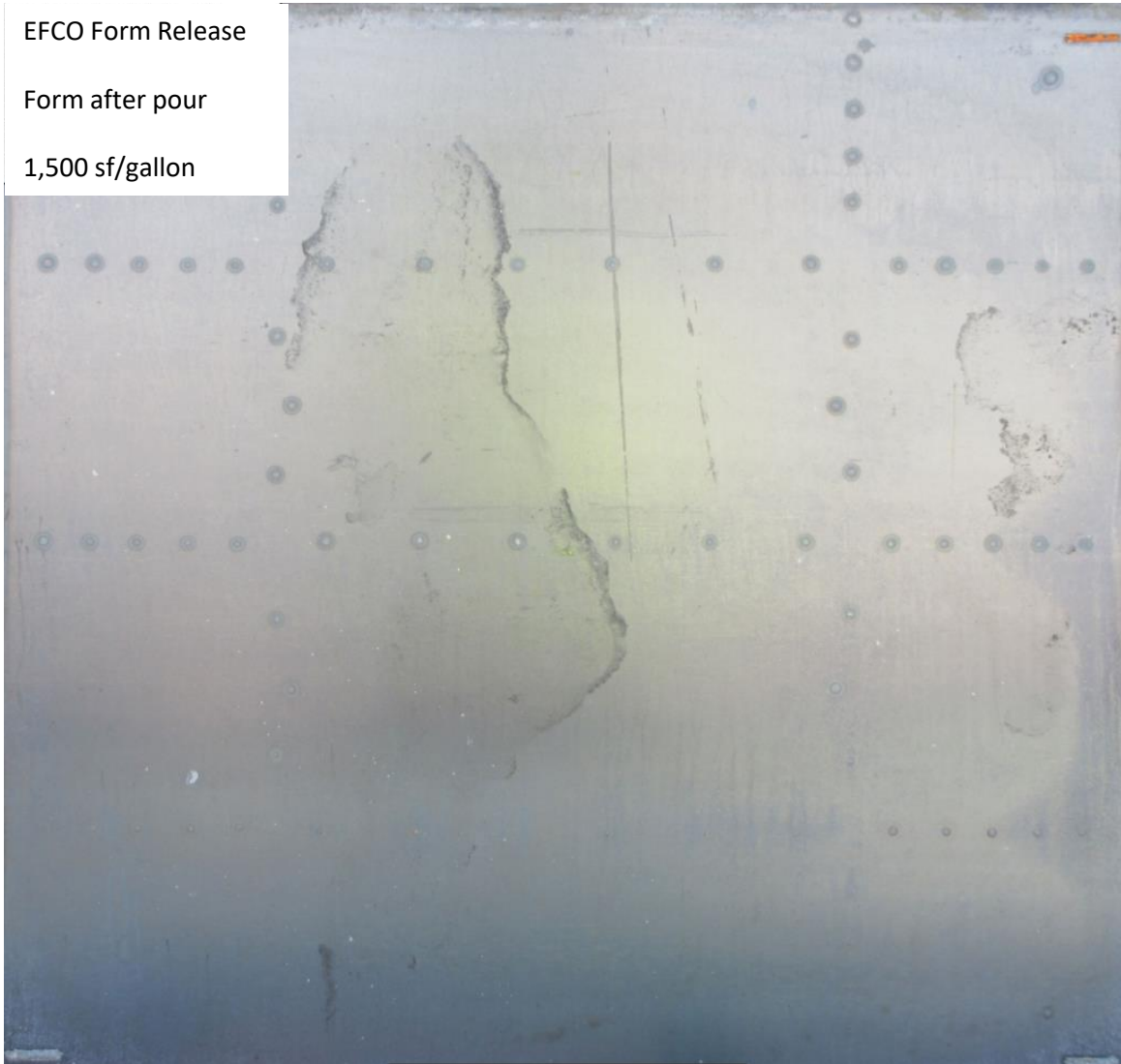


# EFCO Form Release results on clean Hand-E-Form

EFCO Form Release

Form after pour

1,500 sf/gallon



EFCO Form Release

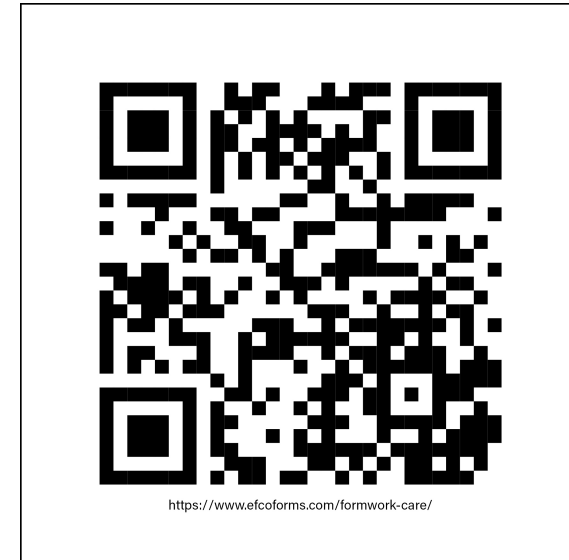
Form after pour

1,500 sf/gallon



# EFCO Literature and training links:

- [How to use EFCO Form Release](#)
- Additional links
  - EFCO Form Release PDS
  - EFCO Form Release SDS
  - EFCO Form Guard PDS
  - EFCO Form Guard SDS



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