



TECHNICAL DATA SHEET

FORMSHIELD® VOC

VOC Compliant Release Agent for Concrete Forms

03100
CONCRETE FORMS AND ACCESSORIES
CONCRETE

TAMMS INDUSTRIES
JANUARY 2000
(Replaces 8/99)

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1. **DESCRIPTION:** FORMSHIELD VOC is a high quality, cost effective release agent for metal, plastic, wood and composition forms. It is a blend of VOC compliant petroleum distillates which prevent adhesion of concrete to forms and allows quick and easy release. FORMSHIELD VOC is supplied, ready to use, as a low viscosity, amber colored liquid.

2. **USES:** FORMSHIELD VOC is used to provide quick, clean release of forms from concrete. FORMSHIELD VOC, when applied according to directions, reduces labor and construction time, lowers costs and allows the forms to be re-used while minimizing clean-up and maintenance. FORMSHIELD VOC can be used on metal or plastic forms and on previously oiled or untreated wood forms. It has excellent release properties and reduces transfer of wood grain markings.

3. **COMPOSITION AND MATERIAL:** FORMSHIELD VOC is a formulation of various petroleum hydrocarbons and fatty acids which comply with National AIM VOC regulations (<450g/l). State and local regulations may vary.

4. **COMPLIANCE:** FORMSHIELD VOC complies with the following national specifications and guidelines:

CE-1401.01 (17.4)	Corp of Engineers
CW-03101 (5.3)	Corp of Engineers
CE-204 (3-03-K)	GSA
ACI 347-68	

5. **SURFACE PREPARATION:** The form surface must be free from dirt, hardened concrete and other extraneous matter. Before coating plywood forms, apply a heavy brush coat to the plywood edges to protect laminations.

6. **MIXING INSTRUCTIONS:** FORMSHIELD VOC is supplied ready to use and requires no mixing.

7. **APPLICATION:** FORMSHIELD VOC is applied by brush, spray or roller. For proper performance always ensure the brush is fully saturated with FORMSHIELD VOC. One full coat should be applied evenly over the panel surface. Do not attempt to "stretch" coverage as sub-standard performance will result. Avoid excessive buildup, runs and puddles because the excess material may retard concrete set. When FORMSHIELD VOC is

used in a dip tank application, cover top of tank when not in use to prevent evaporation. FORMSHIELD VOC will set and be ready to use within one hour on plywood and 4-8 hours on metal and plastic forms. Used forms can be re-coated with FORMSHIELD VOC if proper surface preparation techniques are followed.

8. **COVERAGE:** Coverage rates are approximate and for estimating purposes only. Surface temperature, porosity and texture will determine actual material requirements.

	<u>sq. ft. per gal</u>
Plywood Forms	350-500
Wood Composition Forms	350-500
Plastic Forms	800-1000
Metal Forms	800-1000

9. **CLEAN-UP INSTRUCTIONS:** Clean tools and application equipment immediately after use with mineral spirits. Clean drips and overspray while still wet. Dried FORMSHIELD VOC is very difficult to remove.

10. **CAUTIONS:** Do not thin or dilute FORMSHIELD VOC. FORMSHIELD is COMBUSTIBLE. Keep away from sparks and open flames.

11. **PACKAGING:** FORMSHIELD VOC is available in 5 gallon pails and 55 gallon drums.

Storage: Dry, ventilated, 40-90° F.

Shelf-Life: One year in original, unopened container, properly stored.

Freight Class: Class 55 – Not RED LABEL.

12. **ENVIRONMENTAL AND SAFETY:** FORMSHIELD VOC contains hydrocarbons and is COMBUSTIBLE. Avoid open flame and sparks. Use in a well ventilated area. When using indoors, open doors and windows if possible and use exhaust fans. Wear goggles, protective clothing and gloves. Use a respirator when necessary. Avoid breathing vapors and mist. Avoid splashing into eyes and contact with skin. Wash hands with soap and water after use and before eating or smoking. Protect shrubbery, plants, grass, rubber, and asphalt from spills or overspray during application. **First Aid:** In case of skin contact, wash immediately and thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. Do not rub eyes. Consult physician immediately. For respiratory problems, remove person to fresh

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air and seek medical attention. FORMSHIELD VOC can be fatal if ingested. Do not induce vomiting and call a physician immediately.

Disposal: Collect with absorbent material. Dispose of in accordance with current local, state and federal regulations. READ MATERIAL SAFETY DATA SHEET BEFORE USING. FOR INDUSTRIAL USE ONLY. **KEEP AWAY FROM CHILDREN AND ANIMALS.** EMERGENCY RESPONSE: 1-800-424-9300 (CHEMTREC), 1-800-862-2667 (TAMMS)

13. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

TAMMS INDUSTRIES

3835 State Route 72, Kirkland, IL 60146
800-862-2667 FAX: 815-522-2323
www.tamms.com

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