



# RA-227 RELEASE OIL

## MOLD & FORM RELEASE AGENT FOR CONCRETE

**PRODUCT DESCRIPTION:** *RA-227 Release Oil* is a highly effective vegetable oil-based release compound formulated with a low degree of solvency. *RA-227 Release Oil* is recommended primarily for epoxy coated wood forms or fiberglass molds, but can also be used on urethane or elastomeric precast form liners. *RA-227 Release Oil* contains a chemically reactive base that upon contact with cement alkalinity creates a water-insoluble film on the form's surface that prevents adhesion or sticking of the concrete. Surface voids and related defects are reduced as the film formation helps promote displacement of trapped air. *RA-227 Release Oil* is non-staining and safe to use on white or colored concrete to obtain an architectural grade concrete surface. *RA-227 Release Oil* will not transfer or initiate adverse inter-coat adhesion of subsequent applied coatings, caulks, or sealants. Concrete form surfaces are left free of any residual contaminant build-up, which allows easier cleaning and stripping properties and extends form life.

### BENEFITS:

- Eliminates surface voids on concrete surface
- Leaves no residual film deposit build-up
- Non staining, low odor formulation
- Contains renewable resource (vegetable oil) components for LEED credit
- Helps keep forms clean for extended production life
- VOC compliant in all states with the exception of California

**COMPOSITION:** Proprietary blend of vegetable oils and surface acting chemicals in a hydrocarbon solution.

**LEED RATINGS:** Qualifies for the following LEED credits: **MR Credit 5.1** Regional materials: 10% extracted, processed and manufactured regionally (within 500 miles of Kankakee, Illinois 60901).

PHYSICAL PROPERTIES at 70° F (21°C):	APPROXIMATE VALUES:
Weight per Gallon:	7.97 +/- 0.10 lb./ gallon
Color:	Light yellow- amber brown clear liquid
Viscosity-Brookfield:	20 cps
Flash Point:	250° F (121.11°C)
V.O.C. Content:	245 g/L (2.04 lb./ gallon)

**VOC COMPLIANCE:** *RA-227 Release Oil* is VOC compliant product safe to use in all states with the exception of California (CARB and SCAQMD). It contains less than 250 g/L (2.08 lb. /gal.) volatile organic compounds which meets existing form release agent VOC (VOM) regulations under the EPA's National AIM (Architectural and Industrial Maintenance) listings for all states including OTC and LADCO region states.

**DIRECTIONS FOR USE:** Form surfaces should be dry and free from concrete build-up before *RA-227 Release Oil* is applied. Application can be made most practically by use of a conventional sprayer, as well as by hand wiping with rollers, mops, or rags. **Application rates will vary depending on molds and application method. On conventional epoxy coated forms or fiberglass molds, apply at 1200-1400 square feet per gallon. Apply as thin a film as possible for optimum results.**

**CAUTIONS:** *RA-227 Release Oil* is not recommended for use on metal or aluminum mold types due to the long term possibility of residual deposit build up. *RA-227 Release Oil* is also not recommended for latex rubber or expanded polystyrene molds due to its solvent based composition. Refer to Specco technical service department for assistance in choosing a suitable release agent for these mold types. Keep from freezing to avoid condensation into the container. Colder temperatures will increase the viscosity of *RA-227 Release Oil* and subsequently promote thicker film build which can lead to the possibility of higher surface defects (bug holes).



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**GHS HAZARD RATINGS: DANGER:**



**Irritant: Respiratory Tract Irritation  
Skin & Eye Irritant**



**Health Hazard: Carcinogen, Target Organ Toxicity  
Harmful if inhaled**

**FIRST AID: Refer to product S.D.S. (Safety Data Sheet) for complete health and safety information before using this product. FOR MEDICAL EMERGENCIES ONLY –CALL INFOTRAC AT 800-535-5053.**

**WARNINGS & SAFETY INFORMATION: CONTAINS COMBUSTIBLE LIQUID AND VAPORS! USE ONLY IN WELL-VENTILATED AREAS. RA-227 Release Oil contains petroleum distillates and is classified as a combustible liquid. RA-227 also contains drying oils (modified soybean oils). Rags, roller covers, or mop heads soaked with RA-277 may spontaneously catch fire if improperly discarded. Immediately after each application use, place rags, rollers, or mops into a sealed, water filled metal container. Store and apply away from heat, sparks, open flames, water heaters, or any related sources of ignition. Empty containers may contain explosive vapors that are heavier than air. Keep containers closed. Do not cut or weld on or near empty containers. Under all circumstances, avoid the introduction of compressed air into the container. Make sure that the product application is static free. Avoid breathing vapors. Wear protective clothing and safety glasses during application. Use with adequate ventilation. Use with OSHA/NIOSH approved eye protection and air (vapor) respirator. This product may cause damage to the liver or kidneys though prolonged or repeated exposure to the skin. Avoid ingestion, skin and eye contact and inhalation of the spray mist. Keep away from food and drink. Wash hands thoroughly after use and before eating. Do not take internally. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.**

**H.M.I.S. CODES (Hazardous Materials Identification System): HEALTH = 1, FLAMMABILITY = 2, REACTIVITY = 0, PERS. PROT = G**

**SHIPPING NAME:** Mixture: contains Aliphatic Hydrocarbon, CAS # 64742-47-8

**SHIPPING CLASS:** NA 1993, Petroleum Naphtha, Combustible Liquid N.O.S., 8, III / Item #155250 Sub 2 Freight Class 65- Concrete Release Agent.

**Note: Not regulated by D.O.T. and no placards required if shipping container is less than 119 gallons capacity. For Combustible Liquid Exemption, refer to CFR 49,173.150 paragraph H.**

**STORAGE:** Ideal storage is between 60° to 80° F. Keep from freezing.

**SHELF LIFE:** 1year properly stored. Depending on storage conditions, the shelf life may be extended.

**PACKAGING:** 5 gallon (18.9 L) pails, 55 gallon (208 L) drums, 265 gallon (1000 L) containers.

**WARRANTY:** *Specco Industries, Inc. (Specco) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. No other representations or statements made by Specco representatives, in writing or orally, shall alter this warranty. Specco MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Specco explicitly excludes any written or oral statements or implied warranty on the performance of an applied/installed product manufactured or sold by Specco or through a Specco authorized distributor or reseller. Specco has no control over adherence to Specco's application standards, site conditions, atmospheric variations, installer/applicator skill level or the determination of the suitability of any Specco products for a specific intended purpose. Buyer shall be solely responsible for determining the suitability of Specco's products for the Buyer's intended purposes.*

**REVISED: 02-23-22W**



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