



# TECHNICAL DATA

Transportation  
Sealants & Adhesives

# 2350 MHRV™ & 2350 MHRV™ HAPS Free

## VEHICLE BODY SEALANTS

### 1. PRODUCT DESCRIPTION:

2350 MHRV Vehicle and 2350 MHRV HAPS Free Transportation Sealants were developed from our best selling 2300MHRV for specific applications requiring a heavier bodied product. They fill larger gap-sized joints, such as exterior wheel fender applications. They have been specifically formulated from a combination of special polymers for the many rigorous applications of the transportation industry, including truck-trailer, truck body, travel trailer, manufactured housing, and recreational vehicle. 2350 MHRV Vehicle and 2350 MHRV HAPS Free Transportation Sealants can be exposed to any weather immediately after application. They have excellent expansion and contraction properties to withstand the joint movement and temperature changes associated with transporting manufactured units. They bond to most vehicle body manufacturing materials, including damp, slightly oily, or frozen surfaces. The product has the following unique properties:

- Heavy bodied to fill larger voids
- Short tack-free time
- Exceptional flexibility
- Excellent adhesion to most surfaces including metals, even when damp
- Ultraviolet resistant
- Resealable - may be applied over itself
- Paintable
- Ability to transport unit immediately in any weather
- Tools and cleans up easily
- Mildew resistant
- No dirt pickup

#### Basic Uses:

- Roofing, door, and window framing
- Vents, trim, moldings, seams, and tail lights
- Bonds to most vehicle-building materials
- Where ultraviolet-stable material is required
- Where a paintable sealant is required
- As a trim sealant for metal components

#### Composition and Materials:

2350 MHRV Vehicle and 2350 MHRV HAPS Free Transportation Sealants are based on a proprietary formulation of polymers designed to provide optimum flexibility, adhesion, weather resistance, and life expectancy. Because of the inherent flexibility of the material blend, these sealants do not contain plasticizers (added to many sealants to promote flexibility), which tend to migrate out of other sealants causing hardening and bond failure, thus shortening their useful life.

Their inherent weather and ultraviolet resistance, combined with their lasting flexibility, provide a life expectancy exceeding 25 years.

**Grade:** Gun grade consistency

**Primer:** Not required on most surfaces. If primerless adhesion to a particular substrate is in question, a test application is recommended. Contact Geocel's Technical Service Department for further information.

**Packaging:** 10.6 fl. oz. cartridge, 5-gallon pail, and 55-gallon drum

**Colors:** Bright white and gray

**Limitations:** Not recommended for:

- Traffic-bearing surfaces
- Extruded polystyrene insulating sheathing (Styrofoam®, etc.)
- Acrylic skylight glazing surfaces
- Areas where food is processed or stored unless sealant is cured until solvent dissipates

### 2. TECHNICAL DATA:

(See chart on back.)

### 3. INSTALLATION:

**Surface Preparation:** Excess butyl tape and putty should be removed before applying sealant. Priming is not required unless specified above. Joints should be basically clean and surface dry, although dampness from dew will not interfere with adhesion. Do not use Xylol or MEK to clean joints or to remove surface coatings unless surface can be allowed to dry before application of sealant. If the joint is wet with solvent, the sealant will not adhere properly. Use of a dry rag or brush to remove dust, dirt, or other contaminants is recommended. Contamination from curing agents and form releases should be avoided. Contact Geocel's Technical Service Department or representative if such agents are involved.

**Application and Tooling:** Apply with conventional air powered or battery operated caulking equipment, filling joint completely. When temperature is below 40° F (4° C), application will be easier if sealant is warmed. When temperature of surface to be sealed exceeds 140° F (60° C), do not apply sealant until surface cools. A soap solution or mineral spirits may be used as a lubricant for tooling. Do not allow tooling agents to contaminate open joints.

**Painting:** Sealants may be painted when dry to the touch (15 min. to 1 hr. depending on conditions). Sealants may be coated with any high quality paint. Some paints may crack in dynamic joints. See paint manufacturer's specifications.

**Cleaning:** Remove 2350 MHRV Vehicle and 2350 MHRV HAPS Free Transportation Sealants from gun and tools before they cure. This may be done by scraping and use of solvents such as MEK (lacquer thinner), Xylol, Toluol, or chlorinated solvents. Cured materials may be removed by cutting with sharp tools. Observe manufacturer's precautions when using toxic or flammable solvents.

#### 4. STORAGE LIFE:

One year in unopened containers stored in dry conditions. Always rotate stock.

**Availability and Cost:** Marketed throughout the U.S., 2350 MHRV Vehicle and 2350 MHRV HAPS Free Transportation Sealants are available from various distributors. Costs and further technical data are available from your local Geocel representative or from Geocel's corporate offices.

**Warning:** These product contain a chemical known to the state of California to cause cancer. Harmful or fatal if swallowed. If swallowed, call a physician immediately. May be harmful if inhaled in an enclosed space. Use only in a well ventilated area. Avoid prolonged skin contact. Combustible (during cure). KEEP OUT OF REACH OF CHILDREN.

#### 5. LIMITED WARRANTY:

Geocel Corporation warrants that these products are manufactured according to their published standards. The company guarantees for five years from the date of manufacture that 2350 MHRV Vehicle and 2350 MHRV HAPS Free Transportation Sealants will not crack due to normal expansion and contraction and that they will not lose their adhesion or cohesion. Geocel Corporation will, at its option, either refund the purchase price of, or provide replacement for, that portion of 2350 MHRV Vehicle and 2350 MHRV HAPS Free which fails to perform in accordance with this warranty. Such refund or replacement will constitute the limit of Geocel's liability and obligation for any such failure. Geocel Corporation will not be liable or obligated otherwise for any loss or damage arising directly or indirectly from these products, or the use or failure thereof, whether based on breach of warranty or negligence.

#### 6. MAINTENANCE:

No maintenance should be required. If the sealant is damaged, either remove the bead and reseal with sealant or apply additional sealant over the damaged area.

#### 7. TECHNICAL SERVICES:

Geocel representatives throughout the U.S. are available to provide technical assistance. Geocel's in-house technical staff and laboratory facilities are equipped to respond to specific requests for further information and/or applications testing.

#### Theoretical Yield per Cartridge

1/8" x 1/8" = 102 linear feet

#### Technical Data 2350 MHRV

Viscosity	600 m
Elongation (Peak)	295%
Tensile Strength (Peak)	140 psi
Adhesion:	
Aluminum	19 PLI
Glass	13 PLI
Wood	23 PLI
% Solids	57%
Tack free	15 minutes
Cure (1/4" x 1/4" bead)	2 1/2 days

#### Technical Data 2350 MHRV HAPS Free

Viscosity	1000 m
Elongation (Peak)	252%
Tensile Strength (Peak)	105 psi
Adhesion:	
Aluminum	13 PLI
Glass	11 PLI
Wood	25 PLI
% Solids	66%
Tack free	15 minutes
Cure (1/4" x 1/4" bead)	3 days

#### Service Temperature:

-40° F to 180° F (-40° C to 82° C)

#### Application Temperature:

0° F to 140° F (-18° C to 60° C)