

## Preparing the Car for Return

- Check inside of car to verify unloading is complete.
- Disconnect transfer hose and cap the hose.
- Remove cone filters.
- Close outlet gate valves.
- Secure caps on bottom outlets.
- Close and secure top hatches.

## Sampling

- Plastic gloves should be worn to prevent contamination of the sample.
- Use a clean dry scoop. A clean plastic scoop should be used (metal scoop could introduce contamination).
- When obtaining a bottom sample remove two or three scoops from the tube before collecting the sample.
- **Localized Tube Moisture** Unloading issues due to condensation within the compartment can occur. Over time the excess moisture collects in the bottom valve and tube areas, impeding resin flow. Typically scooping out 20-35 lbs. of saturated resin from the tube allows the dry resin above to transfer normally.

## Useful Information

Control the flow of the PVC using the outlet valve on the hopper car gates.

Striking the car with heavy objects will damage the interior lining and cause the interior coating to flake off into the product causing contamination.

Probing or inserting objects into compartments will introduce foreign matter and can damage the lining.

If you have questions or need screens or parts, contact Shintech Technical Service or Transportation via the website. [www.Shintech.com](http://www.Shintech.com)

Shintech suggests following Operation Clean Sweep Protocol.

[www.opcleansweep.org](http://www.opcleansweep.org)



## Bulk Trucks

- Bulk truck shipments are coordinated with third party carriers. Trucking companies and transloading terminals are audited by Shintech for compliance with the Shintech standards.

## Scheduling a Bulk Truck Yourself

- Trailer must be washed before loading except for back to back loads of the same grade to the same customer.
- Blower and vacuum unit filters must be cleaned or changed with trailer washes.
- A trailer wash includes cleaning gaskets, filters, loading hoses and all points of contact.
- If trailer is dedicated, a wash is required after every fifth load.
- Wash and inspection sheets must be kept for a minimum of six months.
- A sample retention program for each load needs to be in place.
- Catch pans are to be use when loading and unloading.



This shows a bulk truck connection to a railcar

# Helpful Hints About Hopper Cars, Hopper Trucks & PVC

## Partners in PVC



## Shintech PVC Resin or K-Bin Compound

This brochure is to assist in training new hires on important aspects of unloading material.

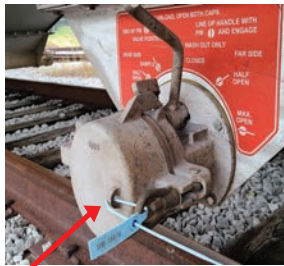
For more information contact:

1. Your sales representative
2. Customer Service 713-965-0713
3. Technical Service or Transportation via [www.Shintech.com](http://www.Shintech.com)

## Receiving Inbound Hopper Cars

### • Upon arrival please verify:

- This is the correct car. Compare the car prefix and number with the grade and lot number on the shipping notice, bill of lading and certificate of analysis from Shintech.
- Inspect for damage such as fresh dents, scrapes or other mechanical damage, leaks, gates or end damage.
- **Verify that the hatch covers and outlet caps are secure and have seals.**
- Damage must be reported to Shintech within 24 hours.



SEAL

**CAUTION** - There is a liner in the railcar that must be protected.

- Don't let the hatch cover slam on the top of the car.
- Don't pound on the side of the car with any item to try to get the resin to flow out of the railcar.

## Unloading Tips

- Always verify the car prefix and number, grade of product, lot number and silo before unloading.
- Unload far side compartment first, once it's empty switch to near side.
- To prevent static buildup, connect grounding strap to the hopper car body and the transfer line to ground.
- Avoid sharp bends in the unloading hose.
- Do not strike the car to improve flow. This will only damage the car and the liner.
- Make sure to use a catch pan.

## Hatch Covers

- Remove any loose items from your person that could fall into the car.
- Check top of car for the type of hatch cover.
  - o Vented covers must be free of ice, snow and debris.
  - o Non-vented covers must be opened and plastic bonnet removed before transfer begins.
- Make sure there is no debris on the car.
- Close and latch when not in use.
- Prop the hatch cover open using the latch. This will allow proper airflow while unloading and protect the product inside.
- Follow all OSHA guidelines for safely being on top of the railcar.



Vented Hatch



Non-vented Hatch

## Outlets

- Remove excessive dirt or debris from the outlet and head assembly area.
- Remove tube inserts.
- Inspect the transition sleeve to make sure it is not loose or damaged.
- Use ratchet cords to support the unloading hose when connected to the outlet assembly.
- Use a cone type filter on the opposite end adaptor during the unloading process.
- Do **NOT** use duct tape.
- Secure outlet caps & top hatches when not unloading.
- Use a resin containment tray under the outlet (hose-railcar connection) to catch spilled material.
- Always keep hose cap or cover in place when not in use to prevent debris from entering the hose and contaminating the silo.



Unloading station with connection support



Cone Filter