



Safe Operating Procedure



Trantex CH360M Thermoplastic Applicator



Potential Health or Safety Concerns

- > Damage to Equipment/Vehicles (Accidents)
- > Injuries to workers and public (Burns, Pinch Points, Crushing, Improper ignition of propane)



Documentation

Complete and review a Hazard Assessment, Traffic Accommodation Plan (TAP) and Emergency Response Plan (ERP). Ensure you have an applicable road use permit (OSCAM, OSCP, etc.) and complete sign logs when required.



Equipment, PPE, and Apparel Required

- > CSA Approved 6" footwear, hard hat, gloves, reflective vest (Class 2-3), ear protection, eye protection, CSA Type 2 small first aid kit, fire extinguisher, burn kit, a fire blanket.
- > Burn protection is required when working with molten thermoplastic (heat rated forearm coverings, Kevlar sleeve, gloves with forearm covering)



Training Requirements

- > Employees must be deemed competent prior to operating the equipment.
- > If a flagger is required, they must be certified.



Colas Lifesaving Icons

The following Health, Safety, or Environmental icons represent applicable risks to this procedure. Please see the **Lifesaving Icons** document for more information.



Hazard Evaluation and Control



Health Hazards



Impairment



Line of Fire



Safe Lifting



Energy Isolation



Competency



Safe Operating Procedure



Procedures and Precautions to Offset Hazards

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1. **Inspection and preparation** > Inspect propane tank, propane hoses, propane regulator, propane burners, machine wheels, and thermoplastic holding tank for signs of wear.
2. **Unloading** > **Push trantex forward towards the back of the cube van.** Utilize power tailgates when available, otherwise use 4 workers to lift the machine: 2 on the ground, 2 in the box of the truck. **If lift gate is available, insert the steel stopper on the lift gate and lock the rear wheel (this will prevent the trantex from moving).** If lifting, the propane bottle, holding tank, and shoe/die should be removed from the machine. Never drop the shoe/die on the carbide plates.
3. **Installing the shoe/die** > Ensure propane supply valve is in the closed position. Carefully set shoe on the ground. If required, remove propane lines, loosen bolt, and slide shoe away from applicator. (If shoe was being used just prior to removal, it will be extremely hot. It should always be handled with care and never stored closed to flammable liquids.)
4. **Lighting burners** > After installing a propane bottle, ensure all valves are in the closed position, then open the valve on the propane bottle. Check for any leaks, set thermostat to low and light pilot burner. Always have a flame present before introducing propane gas. Set thermostat to desired temperature.
5. **Lighting shoe/die** > Introduce flame to the front of burner and slowly open propane supply valve.
6. **Filling holding tank** > Ensure the tank drain is in the closed position, maneuver applicator under cooker truck filling spout. Stand to the side of the melter opening and slowly open material door on the melter to fill the holding tank as required, or within 5-7 cm of the top of the tank. As material is being used up during the application process the temperature must be lowered as the material level drops to avoid burning the remaining material.
7. **Awareness** > Always use a spotter or flag person when moving through any open lanes and while loading and unloading.
8. **Shut down** > Maneuver applicator to safe location. Drain any excess material from pot and shoe into a silicone box. Scrape down excessive material in the pot as best as possible. Remove propane lines from shoe, remove pot and shoe from applicator and store in cube van once cooled down. Load and secure applicator into cube van or truck, ensure it has cooled enough.
9. **Loading** > Utilize power tailgates when available, otherwise use 4 workers to lift the machine: 2 on the ground, 2 in the box of the truck. If lifting, the propane bottle, holding tank, and shoe/die should be removed from the machine. Never drop the shoe/die on the carbide plates.
10. **Safe keeping** > When machine is not in use, always park in a safe area away from traffic and make sure the wheel brake is on to prevent the machine from rolling. Place traffic cones around parked equipment.