950 Purging Spray Systems Technical Bulletin

MANUFACTURER

Raven Lining Systems
13105 E. 61st Street, Suite A
Broken Arrow, OK 74012
(918) 615-0020

DESCRIPTION

Plural Component Spray System Flushing Procedure
This procedure is provided as a guideline for purging and flushing a spray system of coating materials prior to or after use with Raven products. If non-Raven materials are involved contact the supplier of the material to confirm compatibility with Raven 950. All waste materials shall be disposed of according to applicable regulations.

Purging feed pumps, system and recirculation loop:
· Feed pumps shall be removed from material containers and exteriors thoroughly cleaned.
· Feed pump foot valves shall be removed, cleaned and reinstalled.
· The feed pumps shall be placed in containers of clean 950.
· The recirculation loop shall be open with return hoses positioned in waste pails.
· The feed pumps shall be turned on and pressurized to pump the 950 through the system and the return hoses to the waste pails.
· 950 shall be pumped through both sides until clear 950 flows from the return hoses.
· Once accomplished the feed pumps shall be turned off.

Purging the system and heated hose assembly:
· The mixing manifold shall be removed from the heated hose assembly and the material hoses positioned in waste pails.
· The recirculation loop shall be closed and the drum pumps turned on.
· The plural pump may be used to push the 950 through the heated hose assembly.
· 950 shall be pumped through both sides until clear 950 flows from the heated hose assembly.
· Once accomplished the plural pump and feed pumps shall be turned off.

Cleaning system components:
· All filters, surge tanks, manifolds or other vessels within the system shall be disassembled and cleaned.
· Foot valves of the plural pumps shall be disassembled and cleaned.

Final flush of the system:
· Once the above components are cleaned, clean 950 shall be recirculated through the system for 30 minutes back to feed pails.
· Following recirculation, 950 shall be pumped through the heated hose assembly until the supply is exhausted (5 gallons minimum per side).

Charging system with Raven coating material:
· Feed pump exteriors shall be cleaned and pumps drained of 950.
· Feed pumps may then be placed into Raven material containers.
· The recirculation loop shall be open and the return hoses positioned in waste containers.
· The feed pumps shall be turned on and Raven material pumped through the system purging the 950.
· Once clean Raven material exits the return hoses one additional gallon per side shall be pumped into waste pails prior to the return hoses being placed into Raven material supply containers.
· Once accomplished, the recirculation loop shall be closed and Raven material pumped through the heated hose assembly.
· Once clean Raven material exits the heated hose assembly one additional gallon per side shall be pumped into waste pails prior to turning off pumps.

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Cleaning mixing manifold and spray components:

· The mixing manifold shall be disassembled and thoroughly cleaned.
· Check valves on the mixing manifold shall be replaced with new components.
· Static mixers and whips shall be replaced with new components.
· Spray guns shall be disassembled and thoroughly cleaned.
· Filters shall be removed, cleaned and reinstalled.
· Once accomplished the mixing manifold may be reinstalled on the heated hose assembly.

The system is now ready to heat and spray Raven coatings.

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