MT-CL 730 CuredClean — Crosslinked PUR Hot Stripper User Guide

This step-by-step shop-floor guide instructs machine operators on safely dissolving and stripping rock-hard, crosslinked (cured) reactive PUR hot melt residues using MT-CL 730 CuredClean via hot immersion baths or heated machine circulation.

180 – 190 °C	60 – 120 Min	1.10 g/cm³	PTFE & Metals
Bath Temp (Max 190°C)	Average Soak / Purge Time	Density (Fluid Liquid)	100% Teflon & Metal Safe

CRITICAL SAFETY RULE: TEMPERATURE MUST NEVER EXCEED 190 °C!

MT-CL 730 CuredClean operates at high temperatures. The temperature must strictly never exceed 190 °C (Fire and ignition hazard!). Cleaning cloths must be moistened with water prior to wiping and thoroughly rinsed with water immediately after cleaning.

STEP-BY-STEP CROSSLINKED PUR HOT BATH & PURGING WORKFLOW (6 PHASES)

1

STEP 1: DISASSEMBLE PARTS & VERIFY PTFE SEALS

Disassemble clogged nozzles, slot heads, and filters. Verify that all exposed seals are genuine PTFE (Teflon) or metal; remove any soft rubber (NBR) or standard plastic parts that cannot withstand 190 °C.

Critical: Standard rubber or nylon seals will melt at 180 °C; strictly use PTFE.

2

STEP 2: HEAT BATH OR MELTER UNIT TO 180 – 190 °C

Fill the immersion cleaning bath tank or melt pot with MT-CL 730 liquid. Engage heating zones until temperature stabilizes at 180 – 190 °C. Confirm on display that 190 °C is never exceeded.

Fire Caution: Strictly keep temperature below 190 °C at all times!

3

STEP 3: IMMERSE PARTS INTO HOT BATH OR CIRCULATE

Lower disassembled parts into the hot MT-CL 730 bath using metal tongs or wire baskets. For system cleaning, circulate the heated cleaner continuously through closed hoses and melt manifolds.

Protection: Gauntlet-style EN 407 thermal gloves and full face shield are mandatory.

4

STEP 4: SOAK FOR 60 – 120 MINUTES FOR DEPOLYMERIZATION

Allow parts to soak in the 180–190 °C bath for 60 to 120 minutes depending on encrustation thickness. The fluid chemically degrades and liquefies the crosslinked polyurethane thermoset network.

5

STEP 5: REMOVE PARTS & COOL UNDER RUNNING COLD WATER

Retrieve hot parts with metal tongs and immediately place under running cold water for thermal shock quenching. Softened PUR residue washes away readily under cold water flow.

6

STEP 6: WIPE WITH MOIST CLOTH, DRY & REASSEMBLE

Wipe clean using a pre-moistened cloth or brass brush; dry thoroughly with compressed air before reassembly. Rinse used cleaning cloths thoroughly with water before disposal.

Result: Micro-orifices, slot nozzles, and filters are restored to 100% factory clean condition.

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APPLICATION METHOD & EQUIPMENT SELECTION MATRIX

Cleaning Modality	Target Components & Operating Protocol	Technical Advantage Achieved
Static Hot Immersion Bath (180–190 °C)	Clogged nozzles, slot coaters, filter screens soaked for 60–120 min.	Clears micro-orifices without abrasive scraping or drill damage.
Continuous Tank & Hose Circulation	Heated cleaner pumped through encrusted melt pots and lines for 60 min.	Strips carbonized, rock-hard PUR crusts from interior tank walls.
Scheduled Overhaul & Maintenance	Dismantled applicator blocks bathed during planned weekend shutdowns.	Multiplies tooling lifespan and eliminates nozzle clogging breakdowns.
Emergency Equipment Salvage	Complete seized applicator head immersed following moisture curing accident.	Prevents costly write-off and scrap of expensive applicator heads.

OPERATOR CHECKLIST: CRITICAL DOs AND ABSOLUTE DONTs

MANDATORY PROCEDURES (DOs)

- Verify bath temperature stays strictly between 180–190 °C; never allow it to exceed 190 °C.
- Ensure all submerged gaskets and seals are genuine PTFE (Teflon) or metal.
- Quench and cool hot parts under running cold water immediately upon bath exit.
- Always moisten cleaning cloths with water PRIOR to wiping parts.
- Rinse used cleaning cloths with water immediately after use and dispose wet.

ABSOLUTE PROHIBITIONS (DONTs)

- NEVER allow temperature to exceed 190 °C (Fire and flash point hazard!).
- NEVER submerge standard rubber (NBR), nylon, or PVC parts into the hot bath (They melt!).
- NEVER accumulate dry, solvent-soaked cloths in bins (Risk of spontaneous smoldering!).
- NEVER operate hot soaking baths without active local vapor exhaust ventilation.
- NEVER reinstall parts into the PUR hot melt line without 100% complete drying.

TROUBLESHOOTING & FAST OPERATOR INTERVENTION

Observed Symptom	Probable Root Cause	Immediate Operator Action
Adhesive crusts not softening	Temperature below 180 °C or short soak	Raise temp to 185 °C; extend immersion soaking time to 90–120 min.
Excessive fumes / pungent odor	Temperature exceeded 190 °C threshold	Immediately lower heaters to 180 °C. Increase local extraction!
Gaskets blistered or melted	Non-PTFE rubber exposed to hot bath	Replace damaged seals with genuine PTFE (Teflon) components only.
Parts show haze or residue after wash	Insufficient water rinsing	Wash parts again under pressurized running water and dry completely.

OCCUPATIONAL SAFETY, FIRE PROTECTION & PPE PROTOCOL

- Thermal Protective Gauntlets (EN 407): Heavy-duty heat-resistant gloves required for handling 190 °C liquids and hot metal tools.
- Full Face Protection Shield (EN 166): Wear full-face safety visor and goggles to guard against splatters during part immersion/removal.
- Fire Safety & Cloth Disposal: Moisten cloths before use. Store used cloths in a water-filled, sealed metallic container prior to disposal.

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Caution: Fire hazard! Do not exceed 190 °C; moisten cleaning cloths with water!