

BRIEF OPERATING INSTRUCTIONS, WARNINGS
SURFACE TECHNOLOGY

ECOMIX 2000



PLEASE PUT UP IN THE WORKSHOP
READ AND FOLLOW UP

The processing materials or solvents (fluids) used in ECOMIX 2000 equipment have not been manufactured by us. We shall not be liable for their effects.

Because of the wide range of fluids and their different reactions, the operator must consult the fluid manufacturer on such matters as flow rate, the suitability of the fluids for the materials used in our equipment, spray fume and explosion hazards, processing times after mixing as well as any toxic effects.

If fluids containing halogenated hydrocarbons such as trichloro-ethane or methylene chloride need to be used, the wetted parts of the suction and pressure system should not have a galvanized surface nor contain any aluminum parts.

– There can be metal organic reactions that are explosive and extremely caustic.

ECOMIX 2000 devices are low pressure, medium pressure and high-pressure devices.

This means that the pressure in the system (2K devices, filter, hose line and gun) can cause serious injuries when it is released.

- Components not supplied by us must have dimensions that correspond to the given dimensions of the 2K device.
- Never exceed the maximum rated working pressure of the 2K device, gun, hose, etc.
- Because of the risk of fluid injection into skin, never place the spraying equipment (gun) directly on any part of the body (thumb, flat of the hand, etc).
- Do not point the spray nozzle at people or animals.
- When the spray system is activated, be aware of the rebound forces that are released (keep a tight grip on the gun, use a secured stand, work with care).
- Wear personal health protection (respirator, goggles, gloves, etc.) when working with hazardous fluids.
- Engage the gun safety latch after use.

Subject to change

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- To reduce the risk of explosion due to static sparking, all equipment, accessories and objects to be sprayed within the spray area must be grounded.
– Leakage resistance to earth < 10⁶ Ω.
- The necessity of wearing hearing protection depends on the working pressure and the resulting sound pressure level.
- Do not remove any components, e.g. the sound absorber, from the 2K device when it is operating.
- First shut off the compressed air supply to the 2K device and relieve the pressure of the 2K device via the gun, before each disassembly (repair).
- Be careful, when loosening hoses. Obstructed hoses can still contain fluid under high pressure.
- Always have the equipment checked for operating safety by a qualified engineer after a 6-month shutdown or longer, and at least once every 12 months (- VBG 87).
- Qualified engineers must perform all repairs.
- Use of non-genuine replacement parts will void the replacement warranty for the equipment.
- Apply the specified torque values.
- Do not run the 2K device without load, unless under supervision and then only for a very short period of time and at a low air input pressure.
- Never operate 2K equipment without fluid supply (flushing solvent in wet cup and in the hydraulic valves).
- Ensure that the piston in the hydraulic unit of the hardener is in its lowest position when the machine is stopped, to prevent hardener residue to dry up on the piston rod.
- Do not remove the suction hose from the fluid and replace it when the pump is operating – this will cause air to enter into the system and result in spray failures.
- Always use the lowest possible pressure when flushing. Hold the gun firmly against the side of a metal pail while flushing.

INSTALLATION, PREPARATIONS FOR OPERATION

- The installation surface must be even and stable
 - Do not move the 2K device with lifting equipment.
- Ensure that the equipment is properly grounded (- ZH1/200).
- If possible, install the equipment in a place where temperatures do not drop below 15 °C.
- Fill the wet cup and the hydraulic valve with solvent.
 - The flushing solvent must be compatible with the fluid to be pumped later.
 - Do not use nitro thinners or solvents as flushing agents.
- Install filter insert
- Flush the 2K device thoroughly. After flushing, the solvent must be removed thoroughly from the equipment, - but not from the wet cup.
- Check the fluid containers; ensure that the fluid has been mixed well and the container is sufficiently filled.
- Immerse the suction installation in the fluid.
- Operate the 2K device via its contents measuring system for approx. 30 double strokes/min without hydraulic counterpressure, until no more air is pumped.
- Final flushing of the contents measuring system.
- Bleed the fluid hose (from valve unit) and spraying system without nozzle (spray the mixed fluid in an empty container).
- Engage spray equipment lock, install nozzle.
 - The equipment is ready for operation.

OPERATION

- Check the flushing solvent level daily; change discolored solvent
- Never operate 2K equipment without solvent in the wet cup and the hydraulic valve.
- Shut off the air supply to the 2K device overnight and during the weekend; relieve the fluid pressure by engaging the gun, if necessary.
- Always ensure that the 2K device, hoses, gun, etc. are cleaned – both on the inside and the outside.
- The flushing frequency of the entire 2K system depends on the liquids used.
In some cases, it is recommended to flush every day.
The equipment must always be flushed before the weekend, a longer shutdown period and with every fluid change.

SHUT DOWN

- FOR A SHORT PERIOD (a period longer than the processing time)
 - "SPRAY" switch to OFF
 - Engage gun lock and remove tip
 - "FLUSH" switch to "B"
Continue flushing until clean solvent is discharged from the gun
 - "FLUSH" switch to "A"
Repeat the flushing procedure until clear solvent is discharged from the gun
 - "FLUSH" switch to "O"; remove pistol for a short while to relieve the pressure.
- Respect the correct order of the steps of the flushing procedure
- Shut compressed air ball valve at the input of the device.

- FOR A LONGER PERIOD, FOR THE HOLIDAY PERIOD
 - Pull the suction hoses from the FLUID CONTAINER and the HARDENER and insert them in separate solvent containers.
 - Remove the tip, engage the gun and empty the system until mainly clean solvent is discharged.
 - Run the operational cycle for a few minutes (into the solvent container); change solvent and run the equipment again.
 - Flush for a short while with the flushing pump in positions “B” and “A” as described above.
 - Relieve the hydraulic pressure (engage the gun for an instant).
 - Close the compressed air ball valve at the input of the device.
 - Leave the device filled with solvent
 - Fill wet cup and hydraulic valves with solvent.

- FOR A LONG PERIOD
 - Flush as described above. Pump out solvent (from the flushing pump, too) (suck out with air via the suction hoses).
 - Fill the device and the wet cup with ASE or MESAMOLL.

CLEANING CLOGGED TIPS

During the work, the tip must be cleaned regularly from the front with a brush and solvent, to prevent material accumulation and clogging.

When a tip clogs during the work, shut off the compressed air supply, relieve the pressure at filter PN 500, engage the gunlock, screw the tip off the gun and clean it in solvent.

- Always blow out the tip from the front.

If the contamination cannot be removed with compressed air, the tip should be left in solvent overnight and then blown out. If required, use the cleaning needle (publication B.5.90.11-P).

Warning: Do not damage the hardened steel core of the tip.

MORE DETAILED INFORMATION
CAN BE FOUND IN THE USER
INFORMATION, B.8.20.60