



Technical Note

Date:	Tuesday, 9 June 2020
Applicable Equipment:	Harbil Dispensers (HA150, HA450, HA650, HA480, HA680)
Subject:	Start-up process following a prolonged idle period

This is a guide to help prepare the Harbil Dispensers (HA150, HA450, HA650, HA480, HA680 Dispensers) to normal operation after a prolonged period of non-use.

Before trying to dispense colorant, please follow the steps below:

Tools

- Paper towel / cloth / wet wipes for cleaning and/or to remove dried colorants
- Anti mould spray if appropriate
- Gloves and/or any other personal protective equipment recommended by site, employer, etc.

Procedure

1. Disconnect the dispenser from power supply
2. Press E-Stop button on the dispenser
3. Check if the brush is clean, and that there is correct amount of cleaning liquid (water / solvent) in the brush container
4. Open the canister lid one by one and check the colorant condition. If colorant is hardened, thickened or mould has grown, take appropriate actions. You may need to contact the colorant supplier / paint supplier for further instructions
5. Visually check and ensure that each pump disk is in the normal position. You may find some pump disks are raised up, if so, then push them down/up to the correct height. To check if all disks are at the correct height, turn the turn table slowly from right to left (clockwise looking from the top). If you can turn the table around once, you can assume all disks are at correct height. After this, bring one of the pumps to the zero position where a pump is engaged into a stepper gripper
6. Connect the dispenser to the power supply
7. Release the E-Stop button on the dispenser
8. Start up the PC if not yet done
9. Start up the dispenser software (e.g. PrismaPro). This should initialise the dispenser, and turn table should turn one or two times
10. After the initialization, the dispenser will automatically start agitation. If not, start agitation from the dispenser software (NOTE: for agitation to initiate, the top cover needs to be closed. Once agitation starts, then you can open the top cover to check if the stirrers are turning)
11. While dispenser is agitating, open the canister lid one by one and check if the stirrer blades are turning.
 - a. If none of the stirrer is turning, the agitation did not start successfully. Ensure all safety doors are closed. If the issue persists, you may need to consult with your service contact
 - b. If some stirrers are turning but others are not, you may need to replace the stirrer pin or take other actions. You may need to consult with your service contact.
12. From the dispenser software, go to the fill canister option, and check each canister to ensure sufficient amount of colorant is in the canister, and that the software reflects the correct amount





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13. (For HA150, HA450, HA650 dispensers), go to the “Maintenance” option, and conduct “Purge” from each pump.
(For HA480, HA680 dispensers), go to the “Manual Dispense” option, and dispense 1ml from each pump.
 - a. Pay a good attention during this process, and if any error occurs, you may need to consult with your service contact. Also observe the pump nozzle area during the dispensing operation:
 - i. To see if colorant is dispensed in an angle. If so, clean the nozzle area with a wet cloth / wet wipe etc to remove dried colorants. Test again and ensure that the colorant is dispensed straight down.
 - ii. To see if colorant drops when the nozzle is opening or closing (as opposed to when the pump is pushing the colorant out of nozzle). If so, it is possible that there is unwanted air in the system. You may be able to eliminate the air by conducting large dispenser (approx. 200ml). Test again and ensure no unwanted drop occurs during valve opening / closing. If the problem persists, (For HA150, HA450, HA650) conduct manual priming, and (HA480, HA680) conduct special flushing procedure via FFMMaintenance program. You may need to consult with your service contact.
14. Check again if the brush is clean. Also ensure that there is correct amount of cleaning liquid (water / solvent) in the brush container
15. Conduct a formula dispense as a test. Check if all peripherals are working (e.g. label printer, spectrophotometer). If any issues, consult with your product supplier / service contact

