Technical Note

Date:	Tuesday, 9 June 2020
Applicable Equipment:	X-SERIES Dispensers (X-SMART / X-PROTINT Dispenser)
Subject:	Start-up process following a prolonged idle period

This is a guide to help prepare the X-SERIES Dispensers (X-SMART / X-PROTINT) 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. Press E-Stop button on the dispenser
2. Check if the brush is clean, and that there is correct amount of cleaning liquid (water / solvent) in the brush container
3. Visually check the pump nozzles one by one. Wipe with a wet cloth / paper towel to ensure the nozzles are clean
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. If dispenser is not connected to the power, connect to the power supply
6. Release the E-Stop button on the dispenser
7. Start up the PC if not yet done
8. Start up the dispenser software (e.g. PrismaPro). This should initialise the dispenser, and turn table should turn one or two times
9. After the initialization, the dispenser will automatically start agitation. If not, start agitation from the dispenser software (NOTE: for X-PROTINT, the front door needs to be closed to for agitation to initiate. Once agitation starts, then you can open the top cover to check if the stirrers are turning)
10. 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. You may need to consult with your service contact
    b. If some stirrers are turning but others are not, stirrer may be damaged, or some other issues exist. You may be able to replace the stirrer if readily available or take other actions. You may need to consult with your service contact.
11. 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

12. Go to the "Manual Dispense" option of a dispenser software, and dispense about 1ml from each pump. Dispensing small amount is recommended after a long period of non-usage. Pay a good attention during this process, and if error occurs, you may need to consult with your service contact. Also, observer the pump nozzle area during the dispenses:
    a. 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
    b. 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
13. Go to the "Maintenance" option, and conduct "Purge" from each pump. Pay a good attention during this process, and if any error occurs, you may need to consult with your service contact.
14. Check again if the brush is clean, and that there is correct amount of cleaning liquid (water / solvent) in the brush container

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.