

Technical Data and Instructions for Ink Cartridge R1

Technical Data

Material: PP

Dimensions: Diameter 99,4 mm x 369,8 mm

Net weight: approx. 207 g

Volume: 2 litres

Content: Offset Inks

Discharge Pressure: Mechanical systems max. 4.5 bar

Discharge Pressure: Automatic air-flushed systems max. 4 bar

Function

The discharge on the plastic cartridge is fitted with a specially developed valve, which ensures good function with all conventional discharge systems. The valve opens when the pressure is applied and is closed automatically by the integral spring-loaded arms as soon as the pressure has been completely reduced. The valve is fitted with an additional sealing cap, which holds the valve closed during the filling process, closes the valve during transport and guarantees a perfect seal for storage. The sealing cap must be removed before the cartridge is inserted into a discharge unit. The cartridge is sealed with a special piston after it has been filled. This piston is fitted with a ventilation system, which automatically absorbs the residual air after the piston has been inserted and hermetically seals the ingressed ink. The ink that ingresses into the air duct is hardened in the residual air and thus seals the air duct. The piston is tailored to the cartridge and this enables it to be emptied completely. With a correct discharge unit the residue amounts to a maximum of 1 – 2% of the net content.

Decanting Instructions

You must ensure that if the temperature is below 15°C the ink cartridge is brought to room temperature before being filled, otherwise there is a risk that it will split. During the filling process also ensure that the internal wall is not wet with ink above the fill level, otherwise the piston may stick and you will experience problems when you apply pressure to the cartridge. A setting funnel must be used to settle the piston. Ensure that a suitable thrusting tool is used. To vent the piston during the settling process use thin strips of soft plastic, **max. 0,7 mm thickness**, or a thin metal strip (do not use wire unless you have no alternative). The sealing lip on the piston must not be damaged. The end of the piston should be at least 1 cm inside the cartridge after the settling process.

Packaging, Storage and Transport Instructions

The ink cartridge should be transported and stored after being filled with its head down (with the valve at the bottom) so that any included air bubbles near the valve will move towards the piston and will thus prevent skin being pressed into the printing unit. The transport packaging must include a suitable insert on which only the shoulder area of the cartridge should be supported. The insert must be

capable of absorbing the vibrations that occur during transport. The valve unit must not be placed or strike against the base since this can cause malfunctions or, in cool temperature, may even result in the valve being broken. It is essential that there is sufficient space between the valve unit and the base of the packaging. In addition the transport packaging must have a suitable protective insert to ensure that the ink cartridges can not come into contact with each other.

Instructions for Printers

Ensure that the ink cartridge is stored properly. After opening the top of the packaging, you can see whether this is the case by the piston side of the ink cartridge pointing upwards. Before use, the ink cartridge should be brought to room temperature. Before you insert the ink cartridge into a discharge system the sealing cap must be removed. We recommend that you use pneumatic discharge units with compressed air circulation to ensure optimal wiper results by the piston. Mechanical discharge units, depending on their design, may result in the deterioration of the wiping properties of the piston as a result of the instability of the unit and excessive operating pressure. Before you insert an ink cartridge into a discharge unit, conduct a visual inspection for signs of damage or leaks around the valve. If after use the cartridge retains some ink, then after removing it, clean the ink discharge area near the valve very carefully and reseal the sealing cap. Use partly emptied cartridges alternately. If you wish to use a partly emptied cartridge again, ensure that there is no dried ink on the valve. Any skin should be removed before use.

If you have any further questions on this subject, please do not hesitate to contact the following:

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