




PERMASET® Thickener

PERMASET® Thickener may be used to increase the viscosity of **PERMASET®** screen printing inks, typically after dilution with another additive (e.g. **PERMASET® Print Retarder**) or water. A higher viscosity may be required to print through more open mesh (e.g. **PERMAPRINT® Premium** through 34 T/86 tpi mesh).

PERMASET® Thickener can be used with all ranges of **PERMASET AQUA®** Standard, **PERMASET SUPERCOVER®**, **PERMAPRINT® Premium** and **PERMATONE®** products.

DIRECTIONS FOR USE

PERMASET® Thickener should only be added under vigorous stirring. Failure to observe this precaution is likely to result in seeding.

Wear appropriate PPE, e.g. suitable gloves, respirator and goggles. Ensure adequate ventilation during use.

- Generally, a maximum of 10–20 mL of **PERMASET® Thickener** per litre of ink should be sufficient and 5 minutes stirring should be ample.
- Use a bucket or clean mixing vessel that is at least 30% bigger than the volume of ink that you wish to mix. This extra 30% volume (ullage) is required to allow vigorous stirring.
- Shake the bottle of **PERMASET® Thickener** for at least one (1) minute before use.
- If there is any sign of skinning or lumps in the thickener, then the entire contents should be strained before use.
- Pour the **PERMASET® Ink** to be thickened into the mixing vessel.
- Place the mixing vessel under the mixer and ensure that it is securely fastened.
- Start the mixer and increase speed until a vortex forms.
- Add the **PERMASET® Thickener** slowly with an eye dropper into the vortex close to the spindle. As above, failure to observe this precaution is also likely to result in seeding.
- The level of addition depends on personal preference for ink viscosity.
- After thoroughly stirring, test print the ink. If the ink is still too runny, then repeat the addition, stirring and test printing until the required viscosity has been achieved.
- Check the temperature of the ink while mixing. Stop mixing immediately if the temperature exceeds 35 °C. If further mixing is required, the ink must be allowed to cool prior to any further mixing. Mix again only after cooling.
- If over thickened, use **PERMASET® Print Retarder** or water to reduce viscosity again.

CAUTION

The improper addition and/or mixing of **PERMASET® Thickener** can result in lumps or seeds in the ink. In some instances, remixing for 10–15 min with a power mixer will be sufficient to recover the ink. In other cases, the ink can be recovered by straining. However, if the seeding is very bad, then the ink will need to be discarded. It cannot be overstated how important it is that **PERMASET® Thickener** is added **carefully** and mixed well, as described above.



STORAGE & HANDLING

Containers should be kept in a cool dark place out of direct sunlight and away from sources of heat. Ensure adequate ventilation during use. Containers should be tightly closed when not in use. Keep out of reach of children.

SHELF LIFE

12 months if stored in a cool, dry place, out of direct sunlight.

Once opened, the product should be used within 3 months.

The shelf life of the ink mixture will depend upon storage conditions and housekeeping. Please refer to the **PERMASET®** Product Information Guide on housekeeping.

SAFETY NOTES

Please read the Safety Data Sheet (SDS) before using this product.

Respiratory Protection: If risk of inhalation of fumes exists, wear a combined organic vapor/particulate respirator complying with AS/NZS 1715/1716.

Eye Protection: Safety goggles.

Hand Protection: Neoprene, polyvinyl chloride (PVC) or nitrile rubber gloves.

FIRST AID MEASURES

If poisoning occurs, call Poisons Information Centre phone 13 11 26 in Australia or 0800 764 766 in New Zealand or a doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Keep at rest until fully recovered. Seek medical assistance, if you feel unwell.

IF SWALLOWED: Rinse mouth with water. Do NOT induce vomiting. Immediately call a Poisons Information Centre phone 13 11 26 in Australia or 0800 764 766 in New Zealand or a doctor. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water.

IF ON SKIN (or hair): Take off all contaminated clothing. Flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

IF IN EYES: Immediately wash with running water. In all cases of eye contamination, it is a sensible precaution to seek medical advice.



Permaset®



NOTE: The information and recommendations contained in this Product Information Sheet, as well as technical advice otherwise given by representatives of our business, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason, our products are sold without warranty and on condition that users conduct their own tests to satisfy themselves that they will fully meet their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information Sheet out of date and users are requested to ensure that they follow current recommendations.

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