



TECA-PRINT-PRODUCT INFORMATION

PAD PRINTING INKS WEATHER RESISTANCE

If articles which are used outdoors are printed with pad printing, the pad printing ink should be weather resistant.

Weather resistance means:

- The ink is water resistant / resistant to humidity. The outside humidity is not coming under the ink film and can so not influence the adhesion of the ink.
- The ink is UV-resistant, i.e. it is not becoming yellow, even if it is exposed to the UV-radiation.
- The ink is resistant to the different temperatures outside.

Examples for articles used outdoors:

- Garden articles
- Watches
- Tools and machines
- Bathing articles
- Signs

Not every pad printing ink is weather resistant.

1-component-inks:

A good weather resistance can be reached with the following ink types used as 1-component-inks:

TPC 118 TPC 320 TPC 350	Good weather resistance as 1-component-ink
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2-component-inks:

With 2-component-inks, a higher weather resistance can be reached. To consider when using 2-component-inks: The ink is not only responsible for the ink resistance, but more so the hardener. The hardener is the influencing component, if the print will turn yellow or not.

Only certain 2-component-inks and only certain hardeners are weather resistant.

TPC 270 with hardener HR	Very good weather resistance! This ink type shows the best weather resistance and generally should be recommended for outside, if this ink type has a good adhesion on the printed material.
TPC 320 with hardener HR TPC 350 with hardener HR TPC 528 with hardener HA TPC 558* with hardener HA	Very good weather resistance as 2-compont ink

*Drying of the TPC 558 needs extra effort