

# ECOTRANS® AQ Anti-Dye Migration

## Product Information

### Water-based Screen Inks 2-pack system

Used in the production of highly washable, highly stretchable, single and multi-colour and digital hybrid heat transfer labels.

**Substrates:** Transfer Papers, Transfer Films.

**Machines:** Suitable for use on manual, semi & fully automatic machines. List of suitable screen machines on request.



Substrates to be printed must be tested for suitability with the **ECOTRANS® AQ** ink system prior to production runs being carried out. Always test application fully before beginning production run as there is often considerable variance in substrates from different manufacturers and even between different batches.

Some sublimation printed fabrics are susceptible to reactivation of the dye during the application of the transfer. This causes the transfer to become discoloured by the dye from the garment over a short period of time.

**ECOTRANS® Anti-Dye Migration** has been specially formulated to absorb the dye before it can penetrate through the transfer from beneath and cause discolouration of the upper white and coloured layers of the transfer.

## Heat Transfer Label Inks for sportswear and casual wear transfers

**82-08-9-59100 ECOTRANS® AQ LC (Low Cure) Water-based Inks**  
Highly durable | Fast drying | For use in climate-controlled printing environments.

**82-31-9-59100 ECOTRANS® AQ MC (Medium Cure) High Stretch Water-based Inks**  
Highly stretchable | Durable | Fast drying | For use in climate-controlled printing environments.

**82-50-9-59100 ECOTRANS® AQ HC (High Cure) Water-based Inks**  
Extremely screen stable | For use in high temperature and low humidity printing environments.

### Properties

Transfers produced with the **ECOTRANS® AQ** ink system give excellent Performance, Durability, Wash & Dry Clean resistance properties on a wide range of fabrics, when processed in accordance with the TDS recommendations.

Transfers are soft & flexible on suitable substrates  
Wash Resistances up to 95°C dependent on adhesive  
Water Based Pigmented Ink System  
Low V.O.C.

**OEKO-TEX® Standard 100 Class 1 compliant**  
**OEKO-TEX® Eco-passport compliant**  
**Zero Discharge of Hazard Chemicals (ZDHC) compliant**

*When correctly Heat Cured the 2-pack ink system produces Durable & Wash Resistant transfers. Performance, Durability and Wash resistances are dependent on the substrate, release film or paper and the adhesive used.*

### Supplied

Mixing Range: Black, White, Clear, 10 Base Colours, 5 Fluorescent and 5 Formaldehyde-Free Fluorescent Colours.

**FREE** access to the [PERFECTOS® Online Colour Mixing Guide](#). Colour Matching Service available.

Use the **ECOTRANS® AQ** ink coding system to find out your required colour reference code.

Ink and Crosslinker are supplied separately.

### MOQ

Minimum ordering quantity, 5kg per colour.

### Usage

All inks should be thoroughly gently mixed prior to use, as settling of the ink may occur during transportation & storage.

Use as a 2-pack ink system with **ECOTRANS® AQ Crosslinker (82-AD-BS)**.

The **ECOTRANS® AQ Anti-Dye Migration** should be cross-linked immediately before use and applied after the white layer and before the adhesive layer is applied. Best results can be obtained from 2 layers of Blocking Black using a 36T – 62T screen, depending on severity of dye-bleed.

Optimum Resistances will be achieved a minimum of 72 hours after printing.

For maximum effectiveness, print without the addition of any **ECOTRANS® AQ** additives - Note: 1.0% Cross Linker 82-AD-AQ is essential.

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**Crosslinker** Use as a 2-pack ink system with **ECOTRANS® AQ Crosslinker (82-AD-BS)**. *Use in well ventilated areas.*

The "Pot-life" of the 2-pack ink is between 6-8 hours. "Pot-life" is dependent on temperature & humidity levels. For further information refer to **ECOTRANS® AQ 2-pack Mixing Instructions**.

**All 2-pack inks will IRREVERSIBLY HARDEN after mixing. When printing is completed, or if printing is interrupted for more than 15 minutes, the screen mesh, screen machinery & equipment used must be thoroughly cleaned to prevent permanent damage.**

Ink Type	Recommended addition levels
Coloured Inks	5.0% <b>82-AD-BS</b>
White Inks (-HS/-US Only)	5.0% <b>82-AD-BS</b>
<b>Anti-Dye Migration Inks</b>	5.0% <b>82-AD-BS</b>
Printable Adhesives	<b>Do not use crosslinker in adhesives.</b>

**Squeegee** For Screen flat-bed printing, it is recommended to use a medium (Shore hardness 70-75°) square-edged squeegee.

Screens	Ink Type	Passes	Mesh Recommendation	Mesh Range Recommendation
	Coloured Inks	1-2 Layers	90T (229 threads/inch)	61 - 90T (155 - 229 threads/inch)
	White Inks	1-2 Layers	61T (155 threads/inch)	43 - 77T (110 - 195 threads/inch)
	Anti-Dye Migration Inks	1-2 Layers	61T (155 threads/inch)	36 - 61T ( 90 - 155 threads/inch)
	Printable Adhesives	1-2 Layers	36T ( 92 threads/inch)	29 - 43T ( 74 - 110 threads/inch)

**Heat Curing** Dry the printed sheet in a drying tunnel, ensuring that each layer is completely dry before continuing.

**82-08-** Recommended drying conditions: 110°C for 60 seconds  
Range: 80 - 110°C for 45 - 60 seconds (depending on dryer, air flow, screen mesh)

**82-31-** Recommended drying conditions: 130°C for 60 seconds  
Range: 110 - 130°C for 45 - 60 seconds (depending on dryer, air flow, screen mesh)

**82-50-** Recommended drying conditions: 150°C for 120 seconds  
Range: 130 - 150°C for 60 - 120 seconds (depending on dryer, air flow, screen mesh)

**Additives** For maximum opacity, print without the addition of any **ECOTRANS® AQ** additives.

Ink requires thinning without affecting drying rate	add Viscosity Modifier	(82-AD-VM)	↑5%
Ink dries too fast in the screen &/or small designs	add Retarder	(82-AD-RE)	↑5%
Ink dries too fast / high ambient temperature	add Ink Stabiliser	(82-AD-ST)	↑3%
Excessive bubbling caused when mixing	add Anti-foam	(82-AD-AF)	↑1%
Pin-holing occurs when printing	add Wetting Agent	(82-AD-WA)	↑1%

**ENSURE ONLY ECOTRANS® AQ ADDITIVES ARE USED**

<b>Cleaners</b>	<b>PERFECTOS® AQ Performance Cleaner</b>	(99-10-82-V2)	For cleaning screen and machine parts.
	<b>PERFECTOS® AQ Screen Refresher</b>	(99-10-83)	Used to keep the screen stable and open when printing small image areas, or for liberal use after the print run is complete, prior to washout.
	<b>PERFECTOS® Citrus Hand Cleaner</b>	(99-10-HCC)	Solvent-free heavy-duty hand cleaner.

**DO NOT PUT CLEANERS INTO INK**

**Shelf Life** For specific expiry and use by period refer to product label. As a guideline standard mixing range items are suitable for use 3 years from manufacture, and within 12 months of opening. Security Inks only have a shelf life of 6 months.

For maximum shelf life, keep containers closed and store in a cool environment between **5°C (41°F)** and **25°C (77°F)**, out of direct sunlight and away from any heat sources.

Ensure the lid is replaced onto any unused ink in the container to prevent skinning.

**Safety** Refer to the specific **PERFECTOS®** Safety Data Sheets for information on the safety & handling of this range of inks, available on request.

**ECOTRANS® AQ** Test Specifications & \*Declarations are available on request.

**Notes** All Products supplied in bulk quantities & require weighing out prior to mixing / printing as the ratios may vary dependent on colour & substrate to be printed.

Screen Emulsion must be suitable for use with **Water Based** inks.

Quality Control tests carried out to **PERFECTOS®** specifications unless otherwise agreed prior to supply of product. Please use the contact details below for further assistance or information



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