



“ZERO ADD-ON” FORMALDEHYDE Factsheet

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Since January 1, 2016, formaldehyde is re-classified by ECHA as “may cause cancer” (Carc. 1B).

With **Fixapret® Resin WFF** and **Helizarin® EcoSafe**, consumers can enjoy end-products that look good, whilst saving on precious resources and being gentler on the skin. The Archroma “zero add-on”^{*} formaldehyde solutions are an ideal answer to the challenge.

They can be used in applications as demanding as: Baby wear; Shirts and business attire; Home decoration; Etc.

In particular, Archroma’s unique proposition combines Fixapret® Resin WFF, a “zero add-on” formaldehyde no-iron finish and Helizarin® EcoSafe a “zero add-on” formaldehyde printing system.

“ZERO ADD-ON” FORMALDEHYDE NO-IRON FINISH – FIXAPRET® RESIN WFF

Fixapret® Resin WFF is a novel “zero add-on” formaldehyde finishing system for no-iron performance. This innovative anti-wrinkle finish shows good performance and benefits compared to other non-iron solutions with strong, flexible fiber bonding, abrasion resistance, durable wearing and whiteness.

With Fixapret® Resin WFF, consumers can enjoy shirts and fashion that make them look good and smart, whilst saving on precious resources and being gentler on the skin.

Love Your Look – Fixapret® Resin WFF allows:

- Premium quality;
- No-iron performance;
- soft-handle.

Love Your Planet – Fixapret® Resin WFF comes with:

- Biodegradable ingredients;
- Improved carbon footprint of garments;
- Reduced water and energy consumption.

Love Your Health – Fixapret® Resin WFF allows application in all ages and end-use as it meets:

- Oeko-tex® Standard 100 Class 1;
- EU Eco-Label;
- bluesign;
- and standards of leading retailers and brands.

PRINTING SYSTEM – HELIZARIN® ECOSAFE

Helizarin® EcoSafe is an innovative pigment printing system allowing a simplified production process that contributes to a sustainable future:

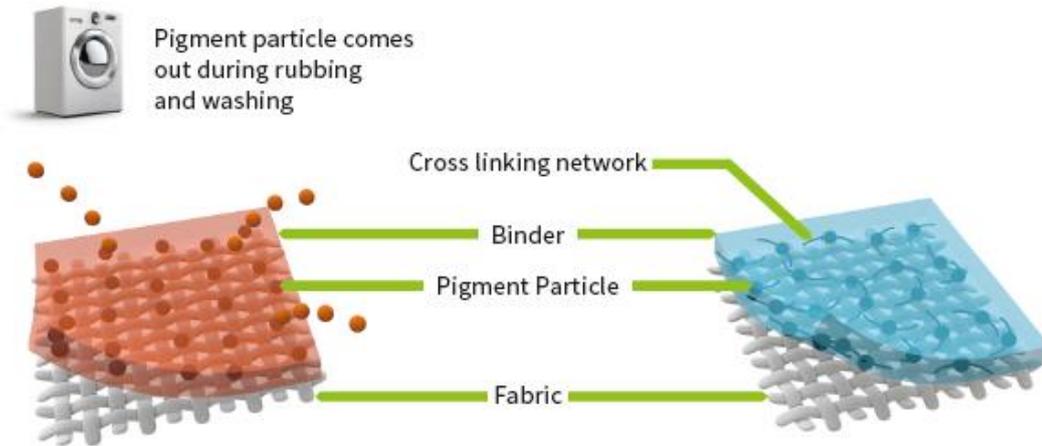
- No after washing required - Saving water;
- One drying step can be omitted - Saving energy.

Water and energy can be significantly reduced by eliminating the after-washing process as well as the subsequent drying process compared to reactive printing. This means shorter overall processing time and reduced resource consumption. The result is higher productivity, lower cost and contribution to the conservation of natural resources.



The Helizarin® EcoSafe system also allows fast sampling and higher productivity, easier color matching and higher quality consistency, and so fabric handle.

In addition, the system is based on Helizarin® Binder CS, a new generation “zero add-on” formaldehyde pigment binder, which creates a self-crosslinking network providing extra support to the binder layer for fastness. A classic “zero add-on” formaldehyde pigment binder requires the use of an additional crosslinking agent to fix the pigment particles.



Helizarin® EcoSafe innovative pigment printing system by Archroma (Photograph: Archroma)

(*) No formaldehyde is added intentionally in the recipe or the raw material components, and there is no generation of formaldehyde during the synthesis of products, allowing compliance with Oeko-tex® Standard 100 class 1 at any given point of time. Please note that formaldehyde is of ubiquitous nature. Trace impurities do not influence the quality of the product.