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Consumer Safety
Resource Saving
Climate Protection



Our Contribution to Your Peace of Mind

The formaldehyde-free Helizarin[®]
pigment printing system –
Putting *FUTURE into Textiles.

 **BASF**

The Chemical Company

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The formaldehyde-free Helizarin® pigment printing system from BASF



Products:

Binders:

Helizarin® Binder TX 4738

Crosslinkers:

Helizarin® Fixing Agent TX 4737

Thickeners:

Lutexal® GP ECO
Lutexal® TX 4606

Emulsifiers:

Luprintol® PE New

Softeners:

Luprimol® SIG
Luprimol® S
Luprimol® VSN

Formaldehyde – Facts and concerns

Formaldehyde has been under scrutiny for years. The regulatory standards, as well as the requirements of retailers and brands are becoming increasingly strict. Public awareness is also increasing and consumers are becoming more conscious on ecology and making purchasing decisions based on this.

Nevertheless, compounds that release formaldehyde have been the most efficient, cost-effective and most widely used crosslinkers in the textile industry up until now. They are employed in pigment printing, pigment dyeing, coating and finishing.

In pigment printing, for example, crosslinkers, binders and thickeners have been the main sources of formaldehyde.

Formaldehyde-free Helizarin® pigment printing system

All crosslinkers, binders and thickeners employed in BASF's new Helizarin® pigment printing system are now formaldehyde-free!

During the printing process the formaldehyde levels on the textile – before and after – are unchanged.

Putting *FUTURE into Textiles

A better FUTURE – through improved consumer protection, efficient usage of resources and reduced carbon dioxide emissions. As a reliable partner, FUTURE to us means that we will continue to offer you solutions for today and for tomorrow with the FUTURE already built in. BASF's formaldehyde-free Helizarin® pigment printing system is an eco-friendly solution while maintaining the highest quality standard for textile printers. The way the FUTURE should be.

Benefits at a glance

BASF's formaldehyde-free Helizarin® pigment printing system:

- meets all the requirements of major retailers, brands and eco-labels,
- guarantees optimum running properties on the printing machine and fulfills the highest quality standards, thus,
- ensures environmentally friendly production and meets the latest ecological requirements.

Applications

- Clothes, especially baby and children clothing
- Home textiles, such as bed linen



Comparison of prints and fastness properties

	Formaldehyde-free Helizarin® pigment printing system		Standard printing system	
	Knitted fabric	Woven fabric	Knitted fabric	Woven fabric
Original print				
5 x household wash 60° C (evaluated according to DIN EN ISO 105 A02)	 4-5	 4	 4-5	 4
Rub fastness, dry (DIN EN ISO 105-X12)	4-5	4-5	4-5	4-5
Rub fastness, wet (DIN EN ISO 105-X12)	3-4	3	3	3
Fastness to dry cleaning (DIN EN ISO 105-D01)	4	4	4	4

Fabrics printed with the formaldehyde-free Helizarin® pigment printing system showed excellent printing results. It also showed a very good standard of fastness.