

## TECHNICAL INFORMATION

### Helizarin® ET 95 FR liq

Helizarin® ET 95 FR liq provides:

- Good fastness properties, especially rubbing and washing fastness.
- Soft handle
- Good resistance to mechanical strain
- Excellent running properties on printing machines
- Very good stability to light

Helizarin® ET 95 FR liq is APEO free

## 1. Properties

Appearance	White, low viscous, liquid dispersion
Chemical character	Self-crosslinking acrylate based copolymer
Ionic character	Anionic
Solid content	40% +/- 1
Specific weigh at 20 °C	1.03 g/cm <sup>3</sup>
Viscosity	40-100 mPas (Brookfield at 23 °C)
pH	7.5 - 8
Dilutability	Dilutable in any proportions with cold water
Storage stability	6-12 months when stored in original container under appropriate conditions between 2 °C and 40 °C
Frost resistance	Not frost resistant
Compatibility with	
<ul style="list-style-type: none"> <li>▪ anionic products</li> <li>▪ nonionic products</li> <li>▪ cationic products</li> </ul>	<p>Good</p> <p>Good</p> <p>Incompatible</p>
Foaming behavior	Moderate
Eco-toxicological data	See Safety Data Sheet

## 2. Application properties

Helizarin® ET 95 FR liq is a suitable binder for pigment printing pastes used on cellulosic and synthetic fabrics and their blends, e. g. on polyester/cellulosic fabrics.

## 3. Application

### 3.1 Guideline recipe

Helizarin® ET 95 FR liq is added to water after addition of Antimussol® UDF liq. The amount of Helizarin® ET 95 FR liq depends on the amount of Printofix® pigment dispersions and desired fastness. Archroma recommends adjusting Printofix® Binders by 3.5 times the amount of pigment dispersion.

#### **Stock paste:**

soft water	X	grs
Antimussol® UDF (1:2 in water)	1-2	grs
Ammonia (adjust to pH 8.5)	2-3	grs
Helizarin® ET 95 FR liq	50-200	grs
Luprintol® Soft VSN liq	0-15	grs
Luprintol® Fixing Agent FF liq	0-10	grs
Lutexal® ESN liq	18-20	grs
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	1000	grs

#### **Printing paste:**

<b>Printofix® Pigment</b>	Y	grs
<b>Stock Paste</b>	Z	grs
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	1000	grs

**Remark:** 3-5 grs/kg of Luprintol® Additive RM liq is advisable as rheology modifier in order to improve the print paste performance mainly on synthetic fibers.

### 3.2 Operating mode

Print

Dry

Cure with hot air during 5 min at at 150 °C, 3 min at 170 °C or 1min at 180 °C.



#### 4. Comments on auxiliaries

Luprintol® Soft VSN liq, printing softener, improves dry rubbing fastness and handle significantly.

Luprintol® Fixing Agent FF liq, formaldehyde free fixing agent, improves wet rubbing fastness significantly.

Lutexal® ESN liq, pigment printing thickener, is very stable to electrolyte; therefore, it is suitable for water with high contain of electrolyte.

Antimussol® UDF liq prevents foam during stirring.

Luprintol® Additive RM liq helps to control of the viscosity and improves sharpness on synthetic fibers. Besides enables to reduce the amount of synthetic thickener.

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