

New Silkflex Textile Ink Technologies

Nanopolymers and Core/Shell Polymers

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Silkflex Worldwide

1. largest producer of high end rubber inks worldwide (minimum 300MT/month excluding polymers and printing paste)

2. active in more than 20 countries including Bangladesh, China, India, Pakistan, Sri Lanka, Thailand, Cambodia, Myanmar, Turkey, Spain Indonesia, Malaysia etc. Market share of 70-80% of Bangladesh high end printing.

3. used by all the biggest brands in the world.

4. market expansion into the middle east, Africa and South America.

5. new high tech production facility by the end of 2012.

Silkflex Inks

1. full range of premium quality inks including special effects (high density, soft crack, Aquadis etc.)

2. latest technologies used in production including nanotechnology and core/shell technology

3. specific inks for all kinds of fabrics

4. special additives to solve specific problems; Nylon Oxal and Crosslinker (Flock Fixer)

Why Silkflex ?

1. Softest and most elastic rubber inks in the world

A. core shell technology makes it possible to formulate very soft inks with very low tack (stickiness)

B. highly elastic and durable polymers are created from new self-crosslinking technology - extreme elongation and snap - back

C. optimization of polymer rheology - smooth, even, highly resolved and low build prints which provides excellent softness, opacity, resolution and reproducibility; less pin holes, less mesh shadow, better penetration into fabric and sharper edges.

Why Silkflex ?

2. Silkflex inks are 100% chemical compliant

A. free of formaldehyde, azo dyes, poly vinylchloride(PVC), phthalates, heavy metals, poly aromatic hydrocarbons(pAHs) and alkyl phenol ethoxylates (APEO)

B. all polymers and inks are manufactured in - house

C. new formaldehyde-free self-crosslinking technology for improved elasticity and durability

D. APEO free emulsifiers and dispersants.

Why Silkflex ?

3. Silkflex inks provide better fabric penetration

**A. nanotechnology used
in the manufacture of
polymers (less than 1
micron)**

**B. nanopolymer absorbs
better into textile fibres
to provide better
durability and evenness
of print; Aquadis, printing
paste etc.**

**C. improved colour
development and
color reproducibility**

Why Silkflex ?

4. Silkflex inks are highly resolved

A. optimisation of polymer rheology to provide highly resolved (sharp) lines and dots. Square sharp edges instead of smeared, rounded and protruding edges.

B. suitable for CMYK and photoprint - Elastisol

C. improved reproducibility of critical designs

Product highlight

Silkflex AquaDis

1. creates the effect of discharge without chemical activation

2. completely free of formaldehyde, APEO and heavy metals-100% chemical compliance

3. extremely soft and 'feel-less' prints with excellent coverage

4. excellent colour reproducibility with multi-colour print possibilities

5. tone and CMYK options available

6. compatible with Silkflex Premium rubber inks in any ratio - adjustable in terms of elasticity, coverage and handfeel

Small but critical Silkflex additives

1. Silkflex Nylon Oxal - oxygen - rich pendant groups

A. improved adhesion onto difficult substrate - nylon, polyester etc.

B. completely free of formaldehyde, APEO, azo dyes - 100% chemical compliant

C. allow 24 hours after heat curing before evaluation of performance

2. Silkflex Crosslinker/Flock Fixer

A. improved wash, colour and chemical durability

B. stone wash, enzyme wash etc.

C. heat-free printing for sensitive fabric to prevent colour migration and textile thermal deformation.

3. Silkflex Anti-migration Sealer (ATM)

A. prevention of fabric dye migration into prints

B. dye migration problem common in textile with high polyester content

Latest textile ink **Silkflex AquaCrack**

1. crack effect textile inks with soft handfeel

2. excellent durability - non flaking/peeling and excellent wash and rub fastness

3. highly reproducible prints (with proper technique)

4. latest core/shell technology - very soft core and very hard shell

5. rheology optimized for excellent print smoothness, evenness and reproducibility

Under development

Silkflex AquaFlock - direct print flock inks

**Thank you for your support in making
Silkflex the best selling
brand in Bangladesh.**

Onaik Dhannabad