

DYE FIXATIVES

Color that stays • Stories that last



- ✓ Enhances wash, rub and perspiration fastness
- ✓ Formaldehyde free options available
- ✓ Suitable for wide variety of dye classes
- ✓ APEO/NPEO free formulations
- ✓ Maintains true tone of the dyes

Colour fastness remains a key challenge in dyeing, as fabrics must retain their vibrancy through washing and wear. Dye fixatives address this by forming strong chemical bonds between dyes and fibres, minimizing fading, bleeding, and colour loss. Applied after dyeing, they either bind to free dye sites or lock dyes onto the fabric, enhancing fastness to washing, perspiration, seawater and rubbing.

At QUEST, we focus on delivering high-performance, eco-conscious dye fixatives that improve durability while reducing overall processing costs.

Questfix ENF (GOTS Certified)



CHEMISTRY

Polymeric QAC



FEATURES

- Improves washing fastness properties of dyeings and prints with direct and reactive dyes
- Formaldehyde free
- Minimal impact on light fastness properties compared to conventional products
- Improves sea water and perspiration fastness
- Does not alter the original shade
- Non-foaming



APPLICATIONS & OTHER USES

0.5 to 0.75% O.W.M at 30–40°C for 20–30 mins. at pH 5–6

Padding:

10–15 gpl at ambient temperature followed by drying



TECH. SPECS

- Colourless to straw yellow viscous liquid
- Cationic
- 6–8

Questfix Q27



CHEMISTRY

High molecular polymer with special reactive groups



FEATURES

- Remarkably improves the soaping, perspiration and sea water fastness, especially hot water dipping fastness and bleeding arrest
- Enhances fastness of panchromatic dyed and printed fabrics
- Ensures minimal colour change with excellent dye reproducibility
- Maintains original fabric handle and hydrophilicity
- No free or combined formaldehyde
- Suitable for soft flow, package yarn, and continuous machines
- Does not impart harshness to the fabric



APPLICATIONS & OTHER USES

0.3 to 0.5% O.W.M at 30–40°C for 20–30 mins. at pH 5–6

Padding:

5–10 gpl at ambient temperature followed by drying



TECH. SPECS

- Yellowish to reddish brown viscous liquid
- Cationic
- 4–5
- Easily miscible in water

Questfix CF



CHEMISTRY

Based on Polyether Amine



FEATURES

- Boosts washing, chlorine, and perspiration fastness on cellulosic fabrics dyed with reactive, direct, or sulphur dyes
- Formaldehyde-free and non-foaming
Enhances contact water fastness
- Minimal to no impact on light fastness or shade
- Retains fabric handle and absorbency
- Suitable by both exhaust and pad applications (with Quest Resin ECO)



TECH. SPECS

- Colourless to pale yellow clear to hazy viscous liquid
- Cationic
- Based on Polyether Amine
- Easily miscible in Water
- Good in Hard water, Salt and Acids



APPLICATIONS & OTHER USES

Questfix CF is applied in neutral to slightly acidic pH and added in diluted form to the treatment bath

Exhaust method:

1-5% O.W.M at 40°C for 20-30 mins at pH 6

Padding method:

20-60 gpl (higher amount for pale shades) and dry at 100-130° C

Other applications:

Questfix CF is suitable for finishing and resin finishing liquors. The said combination exhibits a synergistic action with regards to chlorine fastness properties and improves significantly the durability of the treatment to repeated wash cycles and/or with other finishing agents such as softeners, wetting agents or hydrophobic agents

Precaution:

Questfix CF is cationic in nature and is compatible with most Cationic and Non-ionic finish bath auxiliaries and has limited compatibility with anionics. Pre-trials necessary before bulk use

Questfix RBF



CHEMISTRY

PU based polymer



FEATURES

- Significantly improves wet rubbing fastness on cotton, polyester, and T/C fabrics
- No negative impact on washing or perspiration fastness
- Highly effective on indigo-dyed denim
- Maintains fabric handle and fastness properties
- Suitable by both pad and exhaust application
- Low foaming with excellent solubility
- Free from formaldehyde, DMF, and butanone oxime



TECH. SPECS

- Pale yellow clear liquid
- 5-7
- Cationic
- Easily miscible in Water



APPLICATIONS & OTHER USES

0.3 to 0.5% O.W.M at 30-40°C for 20-30 mins at pH 5-6

Padding:

5-10 gpl at ambient temperature followed by drying

Special instructions:

- Pre-trials in the lab are recommended
- Use non-ionic wetting agent like Quest Clean
- RW if absorbency of the fabric is poor
- pH of the fabric should be neutral before rub fastness finish
- Bath pH to be acidic i.e., 4.5 - 5.5

Precautions:

Questfix RBF is cationic in nature and is compatible with most non-ionic & cationic finish bath auxiliaries. It has limited compatibility with anionic.

Questfix RN



CHEMISTRY

Polyphenolic condensate



FEATURES

- One-bath fixing agent for metal complex and acid dyes on nylon, wool and blends
- Shortens overall fixing process and time
- Acts as a reserving agent for nylon/cotton dyeing
- Improves wet fastness with excellent fixing performance
- Maintains original shade of nylon fabrics



APPLICATIONS & OTHER USES

- For light shade 1-2% o.w.f.
- For middle shade 2-4% o.w.f.
- For dark shade 4-5% o.w.f.

Add Questfix RN into the bath, adjust the pH to 4.0 – 4.5

[with acetic acid or formic acid], and treat at 80-85°C for 30 mins.



TECH. SPECS

- Dark brown clear liquid
- 3-5
- Anionic
- Easily miscible in water
- Compatible with Anionic and Non-Ionics

Questfix PHF



CHEMISTRY

Sulphonic acid polymer



FEATURES

Questfix PHF is a state-of-the-art APEO, Bisphenol A and Bisphenol S free acid dye fixing agent developed to comply with the latest environmental regulations.

- Enhances wet fastness properties (wash, boil, sweat, water, chlorine) of dyed/printed nylon and silk
- Enables acid dye fixation without needing a pH adjuster
- Allows dye fixation directly in the dye bath without draining
- Maintains colour and fabric handle better than tannin or resin-based fixatives
- Non-resin type—no spotting, retains water absorbency and water repellency



APPLICATIONS & OTHER USES

Dye bath process at 70-80°C for 20 mins, pH 3.8-4

Pale color dyeing – Questfix PHF 1.0 ~ 2.0% o.w.f

Medium color dyeing – Questfix PHF 1.5 ~ 3.0% o.w.f

Deep color dyeing – Questfix PHF 3.0 ~ 5.0% o.w.f

Continuous process:

20-30 gpl with padding and dry at 160-170°C for 1 minute.

1.0 – 3.0% to effectively reserve polyamide or wool against direct dyes for the cellulose

The wet fastness of the acid dye used for the polyamide or wool is simultaneously improved



TECH. SPECS

- Dark brown clear liquid
- 3-5
- Anionic
- Easily miscible in water
- Compatible with Anionic and Non-Ionics



FEATURES

- Enhances both wet and dry crock resistance
- Boosts wash fastness with minimal shade impact
- Effective across a wide pH range (2.0–10.0)
- Strong affinity for cellulosic fibres
- Enhances denim appearance post-wash
- Aids in yarn size retention
- Maintains original indigo shade after stone-washing
- Free from formaldehyde



TECH. SPECS

- Pale yellow clear liquid
- 5–7
- Cationic
- Easily miscible in water



APPLICATIONS & OTHER USES

Finishing (Garments):

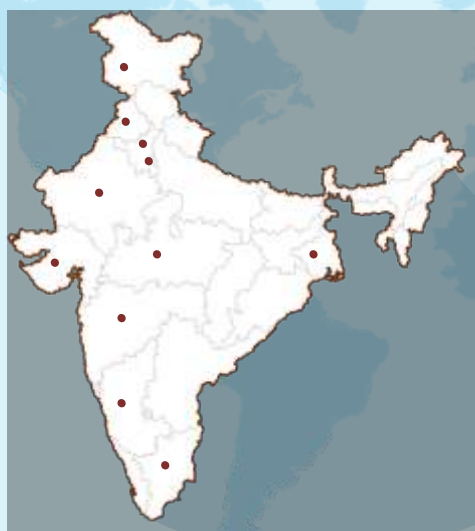
1– 5% O.W.F at 60°C for 15–20 mins

Sizing:

4.5–5 % on weight of sizing paste

It is recommended to test the compatibility of **Questfix IDF** with the sizing agents

Our Global Footprint



- Vietnam
- Sri Lanka
- Bangladesh
- Thailand

Disclaimer

The information given herein and otherwise supplied to users is based on our general experience and where applicable, on the results of tests on samples of typical manufacture. However, because of the many factors, which are outside our knowledge and control, which can affect the use of these products, we cannot accept liability for any injury, loss or damage resulting from reliance upon such information.



Quest Performance Additives (India) Pvt Ltd

📍 L-89 MIDC, Taloja Industrial Area, Tal. Panvel, Dist. Raigad - 410208.
✉ customercare@questperformance.in | 🌐 www.questperformance.in
☎ 022 - 46086497, +91 - 8850195587, +91 - 9833413215

Scan to
download

