ISONIK® F-AC

Fixing agent for acid dyes on PA fiber

Composition	Hydroxyphenylsulfone
Appearance	Clear amber to reddish
Density 20°C	1.17 g/cm3
Ionic nature	Anionic
pH on solution 10 g/l	7.0
Appearance of aqueous solutions	Clear
Stability on hard water	Max. 10°dH
Stability to electrolytes	Also excellent with 20 g/l of Sodium Chloride or Sodium Sulphate
pH range stability	Excellent from pH 2 to pH 12
Wetting effect	None
Foaming	Minimum
Compatibility	Compatible with anionic and non-ionic product and dyes. Incompatible with cationic ones.
Storage stability	Excellent in normal environment conditions for 12 months. Avoid frost ad scorching heat.

Product description

ISONIK F-AC is a synthetic tannin designed to improve the wet fastness of acid and metal complex dyes applied on polyamide fiber and in blends with elastane.

- Excellent stability to acids in concentrated form.
- Compatible with levelling agents.
- Retardant / levelling agent in the dyeing of articles in PA or PA / elastane
- Improvement of wet fastness.
- Little or no effect on shades.
- Little or no effect on light fastness.
- Retardant in the dyeing of PA / wool blends.
- Reserving agent in the dyeing of PA / cotton and wool / cotton blends.
- Low viscosity.
- Easily soluble in water.
- Suitable for automatically dosing system.
- Excellent stability to concentrated acids.
- Can be used in the printing of PA mats to obtain different color effects.
- Applicable in the same dye bath, reserving in PA/cotton and wool / cotton dyeing.

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Instructions

Solutions preparation

ISONIK F-AC dissolves quickly in water in any proportion.

Dosages

1) Fixation of acid dyes (dyeing)

The application carried out in a new bath involves correcting the pH of the bath on values of 4 - 4.5 with the help of acetic or formic acid.
The quantity depends on the intensity of the colors, the nature of the dyes used and the substrate: generally, 3 - 6% (o.g.w.) of ISONIK F-AC should be sufficient.
Start cold and bring the bath temperature to 80 - 90 ° C if you work on PA 6.6 or at 70 ° C for PA 6.
It is circulated for 30 '; the discharge, rinsing and softening follow.
The application of ISONIK F-AC can possibly also be carried out in the same dyeing bath at the end of the process, cooling the bath to 80 ° C before the introduction of the fixator.

Fixation of acid dyes (printing)

Best efficiency of ISONIK F-AC is set at 70-90° C, but these temperatures are not applicable to printed goods (causing backstaining).
In this case, accordingly to physical characteristics of the fibers, the fixation process should be run between 45° C and 60° C.

2) Cotton / PA and cotton / wool dyeing

ISONIK F-AC acts as a staining inhibitor of PA and protein fibers on direct dyes in the one- or two-phase dyeing in a single bath.
Generally, it is used from 1 to 3%, on the weight of the goods.
Pay attention that the presence of non-ionic levelling agents can generate precipitations.

3) Wool / PA dyeing

The use of ISONIK F-AC in the dyeing of wool / PA blends allows to reserve partially the rise of the acid dyes on the PA fiber, thus obtaining on- tone dyeing.
The quantities of use can vary from 2 to 5% (o.g.w.) according to the intensity of yield (larger amounts for light shades).

4) Discharge

In order to over-dye or withdraw ISONIK F-AC from the PA fiber, alkaline environment is usually necessary, by addiction of 1 - 3 cc / l Ammonia for 20 'at 80 ° C; followed by rinsing.