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Technical Data Sheet

Dynazol Washoff

A highly versatile solubilising, dispersing and complexing agent with applications in washing off, dyeing and pre-treatment.

Dynazol Washoff is an outstanding product for washing off unfixed reactive dyestuffs.

Solubilising

Improves the solubility of high molecular weight phthalocyanine, reactive and direct dyestuffs, hence can be mixed with dyestuffs during dissolution, can regulate the substantivity of individual reactive and direct dyestuffs and can thereby improve leveling.

Removes unfixed reactive dyestuffs, particularly those with strong substantivity for cellulose (e.g. Procion MX, HE and some Levafix types) by complexing the hydrolysed reactive dyestuff, reducing the substantivity and substantially increasing the Washoff.

Avoids scum build up in many dyeing operations.

Dispersing

Very effective in dispersing the insoluble impurities in raw cotton.
Aids soil dispersion in preparation.

Improves the rubbing fastness of vat, sulphur and insoluble azoic dyestuffs on cotton and disperse dyes on polyester.

Disperses oligomers during polyester dyeing.

Complexing

Sequestering agent for calcium, magnesium and other heavy metals.

Does not de-metallise metal complex dyestuffs. Eliminates dye spots and streaks caused by the reaction of heavy metal salts with dyestuffs.

Anionic brown liquid of low viscosity. PH 7.5 – 8.0

Based on a modified acrylic copolymer. Completely soluble in hot or cold water.

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The Application of Dynazol Washoff

Pretreatment

1-2 g/l Dynazol Washoff added to the preparation liquor sequesters calcium, magnesium, iron and other heavy metal salts. It also aids in the dispersion of the insoluble impurities in raw cotton and other soiling matter.

Dyeing

Perhaps the most difficult problem with dyeing reactive dyes is the removal of unfixed dye at the end of the dyeing process. It is not unknown for the washing off to take more time than the actual dyeing. This is often the result of the dyestuff having strong substantivity for cellulose. In such cases, adding 1-2 g/l of Dynazol Washoff to the Washoff liquor will complex the hydrolysed reactive dyestuff, reduce the substantivity and shorten the Washoff time.

Dynazol Washoff can be mixed with the dyestuff during dissolution to give improved solubility, particularly of high molecular weight phthalocyanine, reactive and direct dyestuffs. 1-2 g/l Dynazol Washoff can regulate the substantivity of individual reactive and direct dyestuffs and thereby improve leveling.

When dyestuffs which react with heavy metal salts are used, the addition of Dynazol Washoff will eliminate dye spots and streaks. It will also frequently avoid scum build-up in dyebaths generally and give better dispersion of dyes on polyester dyeing. An additional advantage in polyester dyeing is that oligomers tend to be dispersed also. For these applications. 1-2 g/l are required.

After treatment

Treatment with 1-2 g/l of Dynazol Washoff gives better rubbing fastness of vat, sulphur and insoluble azoic (naphthol) dyestuffs. Also of disperse dyestuffs on polyester.

Treatment of Water

Dynazol Washoff is a very effective sequestering agent for calcium, magnesium and other heavy metals. It does not de-metallise metal complex dyestuffs.

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