

## ZETESAL FAP

### Aftertreatment and reserving agent for dyeings and printings on polyamide fibres - including carpet printing

#### Chemical composition

polycondensation product of aromatic sulfonic acids

#### Characteristics

Appearance:	brown liquid
Ionicity:	anionic
Viscosity:	viscous
Solubility:	miscible with water in all proportions
pH value of the original:	7.5 to 9.5
Resistance:	compatible with anionic, but not compatible with cationic substances; limited compatibility with non-ionic products; resistant to hardness elements of water
Storage:	12 months if properly stored
Stability to frost:	partially sensitive to frost; but reversible change of state by influence of frost; i.e. the product solidifies but can be fully applied after thawing

#### Application properties

- substantial improvement of the wet and chlorine fastnesses of polyamide dyeings and printings with acid dyestuffs
- no negative influence in hydrophilicity of polyamide material
- reserving effect
- no influence on the shade
- no influence on the light fastness
- no tendency to yellowing
- no effect on the fastness properties by subsequent steaming and heat setting processes
- negligible influence on the touch
- conformity with Öko-Tex Standard 100
- GOTS 5.0 approved additive
- bluesign® approved
- ZETESAL FAP is an Eco Logic! product

#### Application fields

The main application of ZETESAL FAP is the aftertreatment of polyamide dyeings and printings with acid dyestuffs.

The above results have been obtained from trials in our laboratory and plant. In the light of changing conditions they can serve only as a guide and are therefore offered without obligation. We ask you to observe the possible rights of third parties.

## ZETESAL FAP

- wet and chlorine fastness improvement of dyeings and printings with acid dyestuffs
- reserving agent for the following fibre blends:
  - polyamide/cellulose (reserving of PA with regard to direct and reactive dyes)
  - polyamide/wool (reserving of PA with regard to acid dyes)
  - wool/cellulose (reserving of wool with regard to direct dyes)
- preventing of soiling of the white resist in afterwashing of prints during printing of polyamide with acid dyestuffs
- carpet printing by color resist process

### Guidelines for application

ZETESAL FAP is diluted with cold or warm water and added to the treatment baths after the addition of the acid. However, contact with concentrated acids shall be avoided.

Improvement of wet and chlorine fastnesses:            **2 - 4 % ZETESAL FAP**

The aftertreatment is carried out at a pH of 3.5 to 4.0 with acetic or formic acid at 75°C for 25 - 30 minutes. Rinse thoroughly after treatment.

Improvement of wet fastnesses for fluorescent dyeings:    **2 - 6 % ZETESAL FAP**

The aftertreatment is carried out at a pH of 5.5 with acetic acid at 65°C for 20 minutes. Rinse thoroughly after treatment.

Optional cationic fixing with ZETESAL TCS or ZETESAL CCL after thorough rinsing.

Reserving of dyeings:    **2 - 4 % ZETESAL FAP**

Reserving in print afterwashing:            **2 - 4 g/l ZETESAL FAP**

Each of the above treatment is carried out for 10 minutes at temperatures from 20 to 60°C and at a pH of 3.5 to 4.0. Continuous treatment is possible. Rinse thoroughly after treatment.

Color resist process:    **20 - 40 g/kg ZETESAL FAP**

The product is added to the printing paste which is adjusted to a pH of 3.5 - 4 with acetic acid.

Stripping:    2 g/l soda ash  
   1 g/l TISSOCYL 4P    80 - 100°C; 20 min

Rinse thoroughly after this treatment.

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### Special remarks:

- *Non-ionic substances must not be used together with ZETESAL FAP since they may reduce the effectiveness.*
- *For use in continuous application processes consider that ZETESAL FAP is substantive.*

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