



Rapidodye WDA

1) Properties

Chemical Composition	:	Modified hetrocyclic polymer compounds
Appearance	:	Sticky clear viscose liquor
Ionic Nature	:	Mildly cationic
pH	:	2.8 – 3.3
Solubility	:	Miscible with water
Biodegradability	:	Above 99%

2) Application

- 2.1) Add **Rapidodye WDA** into the dyebath at room temperature
- 2.2) Adjust pH to 4.5, preferably with formic acid
- 2.3) Run for 10 minutes
- 2.4) Then carry out dyeing as usual
- 2.5) **Rapidodye WDA** : 0.25 – 0.50 % owf
- 2.6) pH : 4.2 – 4.8

3) Recommendations

- 3.1) Stir **Rapidodye WDA** thoroughly before removal from the drum
- 3.2) It is recommended to dilute the product in water prior to the addition in the treatment bath
- 3.3) Avoid boiling up of solutions with live steam
- 3.4) The required amount of **Rapidodye WDA** should be added to the bath at the beginning of the treatment
- 3.5) It is recommended to maintain pH 4.2 – 4.8 for better dyeuptake
- 3.6) When dyeing with acid dyes and metal complex dyes, it is recommended to add 0.5~1 g/l Dyesol TNL with **Rapidodye WDA** to get uniform, dyeing.

4) Advantage

- 4.1) Dyeing auxiliary suitable for different kinds of acid dyes and reactive dyes for wool and polyamide
- 4.2) Can be applied on cashmere, mercerized wool, other animal hair, wool blends as well as polyamide and silk fabrics
- 4.3) It can be applied for dyeing textiles in different forms such as loose fiber, wool top, wool yarn and fabric, etc
- 4.4) Reduces dyeing time approximately by 50.0%
- 4.5) Higher dye uptake at low temperatures
- 4.6) Reduces the dyeing temperature of cashmere to 80~90°C, this reduces the damage or hydrolysis of cashmere when treated under high temperature conditions. Thus the spinning property of cashmere is improved



- 4.7) Creates additional dyeing sites on fabric
- 4.8) Produces level dyeing on wool fibres having different dyeing properties
- 4.9) Minimizes faulty dyeings due to variations in substrates and their origin
- 4.10) Reduces effluent load due to better exhaustion of dyes
- 4.11) Damages to wool fibre can be avoided due to possibility of dyeing of wool at low temperatures
- 4.12) Suitable for dyeing of acid dyes, metal complex dyes, mordant dyes and reactive dyes on wool.

5) Note

- 5.1) The amount of Rapidodye WDA required depends on the type of machine used, composition of the treatment liquor, the quality, construction and weight of the fabric
- 5.2) After addition, load the fabric in the machine and run the fabric for 5 – 10 min at room temperature and then raise the temperature
- 5.3) Dosages shall be optimized based on quality, construction of textiles, type of machine and the type of process / application and the type of dyestuff

6) Safe use and handling

Good hygienic and industrial practices should be followed and, when employed as recommended, **Rapidodye WDA** will not present any hazard. However, prolonged skin contact with the neat product should be avoided and any splashes on the skin should be washed off with water.

The information herein is, to the best of our knowledge, correct and complete. It is based not only on the work in our laboratory but also on the reported results of other workers in this field. It is offered without guarantee of specific properties and no patent liability is assumed. No liability can be accepted for any loss, injury or damage resulting from its use.

