



Hydrowick PA

1) Product Description

- 1.1) PU resin for all natural, synthetic fibers & their blends
- 1.2) For very soft, super absorbent & elastic finishes
- 1.3) Excellent Shrink resistance & elastic recovery
- 1.4) Superior absorbency : superior to all other finishing agents
- 1.5) Elegant softness with volume handle. Handle modifier
- 1.6) Improves abrasion resistance. Good tensile & tear strength
- 1.7) Durable to frequent laundering & dry-cleaning
- 1.8) Reduction of pilling. Free from slip trouble & gum-up
- 1.9) Antistatic, soil release properties
- 1.10) Dry faster. No mentionable influence on colour

2) Properties

Appearance	Light yellowish semi – transparent liquid
Base	Blocked urethane prepolymer
pH(10% solution)	5 + 0.5
Ionicity	Weak cation
Solubility	Easily soluble at cold or warm water
Compatibility	Compatible with most of the finishes, but pre-trial is advisable with anionic products
Field of application	
Substrate	Fabrics of cellulose, wool, synthetics and their blends
Methods	Exhaust, padding and printing
Operation	Soft, high absorbent and elegant finish

3) Application

3.1) Application amount and condition

Thorough rinsing off of alkaline residue is recommended especially on 100% cellulosic goods. Such alkaline condition can deteriorate the finish effect.

Padding	10~50 ml/l of Hydrowick PA
Exhaust	1~5% o.w.f. of Hydrowick PA
Printing	10~x ml /l of Hydrowick PA
Superior handle	40~100 ml/l of Hydrowick PA x g/l other resins & agents if required



The bath temperature should be 30°C below

pH: 5.0 – 5.5 with acetic acid (do not apply in alkaline conditions)

Drying: 110– 130°C x 2~x min.

Curing (at padding, if necessary): 120°C X 60-120 sec.

3.2) Application example

Hydrowick PA significantly improves the elastic recovery on treated goods. And this property is also improved in combined use with other finishing additives

Hydrowick PA can be applied to various finishes such as soft & high absorbent finish / high-elastic finish / wash & wear / and many other special finishes

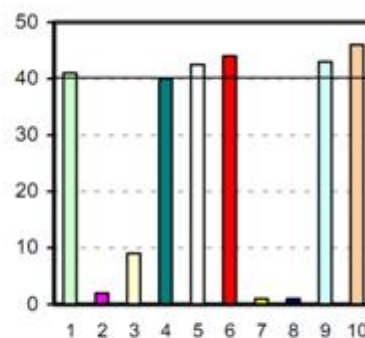
Elastic/ Soft / High absorbent finish

Material: all goods including CEL, PES/Co, PES micro etc.

20-60 ml/l	Hydrowick PA
10-30 ml/l	Hydrowick PA
x g/l	Other agents if required

Absorbency Test

- 1. Cotton, Blank
- 2. Cotton, 10 g/l amino silicone*
- 3. Cotton, 20 g/l amino silicone
- 4. 10g/l amino silicone + 20g/l PA
- 5. 20g/l amino silicone + 40g/l PA
- 6. Polyester, Blank
- 7. Polyester, 10 g/l amino silicone
- 8. Polyester, 20 g/l amino silicone
- 9. 10g/l amino silicone + 20g/l PA
- 10. 20g/l amino silicone + 40g/l PA



1~ 5 = cotton, 6~ 10 = polyester
amino silicone* = amino-silicone softener, 20% active silicone

Most of existing softeners show poor absorbency. Some hydrophilic softeners may provide good absorbency in the beginning but their durability to washing is very poor (the effect is almost gone at 5~10 times washing) & handle is not so good.

Combined use with **Hydrowick PA** & most of other softeners brings well balanced absorbency + softness; thus such combination produces ideal effect.



Quick & superior absorbency, dry-faster

Hydrowick PA provides soft handle/ quick & superior absorbency/ faster drying on all textile goods even on polyester goods at more than 20 times washing. So it is extremely suitable for fast drying articles (eg. Coolmax, Aerocool wear), special knitwear, towel and all textile goods where excellent handle & absorbency is required

Super soft /high absorbent finish

Silkensoft 345 N provides soft handle / quick absorbency / faster drying on cotton and polyester goods with more durability if **Hydrowick PA** is mixed in the softener bath.

20-50 ml / l	Silkensoft 345 N
40-100 ml/ l	Hydrowick PA
x g/l	other agents if required

Wash & Wear (Easy-care) Finish

Material: woven or knit of CEL, PES/Co, shirts, trouser etc.

70 g/l	Glyoxal resin
20 g/l	Catalyst of glyoxal resin
10 g/l	Formaline remover(urea), if required
10 g/l	Tear strength improver
40-100 g/l	Hydrowick PA
10-60 g/l	Silken Soft GSA 4020

4) Safe use and handling

Good hygienic and industrial practices should be followed and, when employed as recommended, **Hydrowick PA** 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.