

# TECHNICAL BULLETIN

## ULTERION® PW-100i

### POLY BLOCKER & SOIL RELEASE

#### PERFORMANCE FEATURES

- Anti-redeposition
- Soil release
- Improved wicking
- Exceptional softness
- Dye leveling
- Anti-crease

#### Product Description

*Ulterion® PW-100i* is a 100% solid form of a non-ionic polyester copolymer. PW 100i is easily dispersed in water to more usable solids levels and can be formulated with other additives to enhance performance.

##### *Polyblocker*

*Ulterion® PW 100i* is an exceptional anti-redeposition agent for use in garment processing applications. It is known as the “gold standard” of polyblockers.

##### *Soil Release*

Polyester fabrics treated with the dispersion of *Ulterion® PW-100i* exhibit superior soil release and stain resistant properties to a wide variety of stains including grease, oil and food additives.

##### *Improved Wicking*

Polyester and polyester/cotton fabrics treated with the dispersion of *Ulterion® PW-100i* exhibit improved wicking and moisture transport features. This gives these fabrics the ability to wick moisture and perspiration away from the skin making them more comfortable and cotton-like.

##### *Exceptional Softness*

The dispersion of *Ulterion® PW-100i* treated fabrics feel exceptionally soft and supple due to antistatic properties and the slick hand imparted.

##### *Dye Leveling*

The dispersion of *Ulterion® PW-100i* promotes dye leveling when used with dispersed dyes on 100% polyester fabric.

#### MARKET USES

- Poly Blocker for denim
- Textile finishing and dyeing

##### *Anti-Crease*

Because of its ability to relax the fabric, the dispersion of *Ulterion® PW-100i* also prevents the creased normally associated with the dyeing of polyester fabric.

#### Typical Properties

% Solids	100
pH @ 1%	4 - 7
Odor	Sweet Ester
Appearance	Dark Solid
Origin	USA

#### Handling / Storage Stability

Dispersions of *Ulterion® PW-100i* should be stored between 20°C and 35°C to insure maximum shelf life. For best results, this dispersion should be used within one year. There are no special storage requirements for *Ulterion® PW-100i*.

#### Product Safety

When considering the use of **Ulterion International** products, please refer to the latest Material Safety Data Sheets (MSDS). If you require an MSDS for this product; please call Customer Service or your **Ulterion International Representative**.

Ulterion International, LLC.

P.O. Box 236

Braselton, GA 30517

Phone: 706-654-2222

Fax: 706-654-2234

[www.ulterion.com](http://www.ulterion.com)



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#### Application Methods

- **DENIM PROCESSING**
- **USE 0.1 - 3.0%**
  - Bath solids for soil release applications should be 2-4% OWG.
  - Bath solids of 0.5 – 1.0% is recommended.

#### Ulterion - PW100i Process Guidance

Applications	Dosage (% base on Bath Solid Weight)	Adding Point				Remarks
		Desizing / Pre-wash	Dyeing	Abrasion	Final Washing	
Anti-backstaining	1 - 3	✗		✗	✗	During desizing, abrasion and final washing, 1 - 3% of PW100i may be added to any or to all of these three steps
Soil Release	0.5 - 1	✗			✗	0.5 - 1% of PW100i should be added to the final washing step. You may also add this amount to the desizing step if desired.
Improved Wicking	0.25 - 1				✗	
Exceptional Softness	0.25 - 1				✗	
Dye Leveling	0.5 - 1		✗			
Anti-Crease	0.25 - 1	✗			✗	During desizing and final washing, 0.25 - 1% of PW100i should be added each time.

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Braselton, GA 30517  
Phone: 706-654-2222  
Fax: 706-654-2234  
www.ulterion.com



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