

# **Surpass<sup>®</sup> ECP**

## **Super Hydro AR**

**Lens Finishing and Surfacing  
Recommendations  
for  
Surpass AR Custom Coating**

**E**ASY TO CLEAN

**C**OST EFFECTIVE PERFORMANCE

**P**ROVIDES IMPROVED DURABILITY



**SEIKO PENTAX**

SEIKO OPTICAL PRODUCTS INC.

# Surpass® ECP Super Hydro AR Custom Coating



## Frequently Asked Questions

### What is Surpass® ECP?

Surpass® ECP Super Hydro AR features EasyClean® *Plus*, a new hydrophobic/oleophobic topcoating that repels water, oils and grime, making lenses easier to clean.

### How does Surpass ECP compare with other premium coatings?

Based on test results from COLTS Laboratories, Surpass ECP is comparable with the top branded premium coatings in the marketplace today.



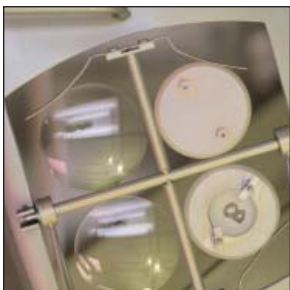
### What is the Warranty?

Scratch warranty – 2 years

Manufacturing Defect – 2 years

### What can I do to avoid having lenses slip when edging?

Pentax provides a pair of complimentary Lens Saver Dots with each Surpass ECP lens. To avoid slippage when edging, place one Lens Saver Dot below the blocking pad to protect the front side of the lens, and the other on the back side in the same location. The recommended edger pressure is 18-22 psi.



## Compatibility List

The following lenses are compatible with Pentax custom AR coating:

Plastic	All manufacturers
Polycarbonate*	All manufacturers
High Index Plastic*	All manufacturers
Crown/High Index Glass	All manufacturers

\*All polycarbonate and high index lenses require a back side hardcoating.

**Note: Please call Surpass ECP Custom AR Customer Service at 800-401-9201 for any mid-index product.**

# Lens Finishing and Surfacing Recommendations for Surpass AR Custom Coating

**Note:** Edged Lenses are preferred for Surpass ECP AR Coating.

## **Surfacing:**

1. For best results, use front and back side hard coating on all lenses to be coated.
2. Carefully inspect lens blanks before surfacing or finishing.
3. Select surfacing pads and polishes recommended for AR coating.
4. After surfacing, re-inspect the lenses.
5. Make sure the lab-applied hard coats are fully cured.

## **Tinting:**

1. Tint lenses 10% to 35% darker than desired, depending on the how permanent the color is.
2. Immerse lenses in 200°F water for about half the time it took to tint them (Use 180°F for high index).
3. If color shift occurs, add the proper adjustment color (10% more than necessary) and soak in hot water again.
4. Allow for slight residual fade due to the AR process. Submit lenses approximately 5% darker than desired.
5. Use only hot water to remove excess color. When using neutralizer, dye can be removed too quickly.

## **Finishing:**

1. Edging
  - a. Thoroughly clean edger-chucking pads.
  - b. Use the enclosed PSI Saver dots.
  - c. Apply chucking pressure gently to avoid stress marks on the lens.
  - d. Rinse lenses before handling to remove any grit on the lens.
  - e. Use only water as a coolant and change it on a daily basis.
2. Rimless grooving
  - a. The grooving should be well centered, to avoid chipping.
3. Edge polishing
  - b. Protect the front and back surfaces of the lens with tape when polishing.

## **Final Inspection:**

1. Inspect for any surface or color defects. Lens bevels and edge treatments must be free of defects and acceptable thickness for the lens fixtures used in AR coating.
2. Remove all progressive lens ink markings. Removing residual ink involves manual scrubbing and may scratch the lens.

## Preparing Lenses for Transport

1. Lenses must be thoroughly cleaned before shipping to the AR coating facility. Dirt on a lens increases the likelihood of scratching in transit.
2. Tightly wrap lenses in lint-free tissue to minimize their movement in the shipping envelope.
3. Be sure to identify the lens manufacturer, lens material (including index), and lab-applied hard coat on the shipping envelope.
4. Do not use staples or tape to seal the lens envelope. Fold the flap over and ship using an appropriate size box with padding.

**Note: It is important to thoroughly clean lenses prior to shipment to decrease the risk of scratches, both in transit and at the AR coating facility.**

Lenses at our Surpass AR coating facility are cleaned by an automated ultrasonic system that requires no wiping of the lens. Lenses are handled by the edges only throughout the AR process, minimizing the risk of scratching. If lenses arrive dirty, manual cleaning may be required, increasing the chance of scratches.

**If you have any questions, please call Customer Service at 800-401-9201**

## **PENTAX Surpass ECP is also Available in Stock Single-Vision Lenses in All Materials**

- 1.67 UltraThin UV • 1.60 UltraThin UV
- DiamondClear® Premium Poly • Ultra 1.50

**SEIKO PENTAX**

SEIKO OPTICAL PRODUCTS INC.