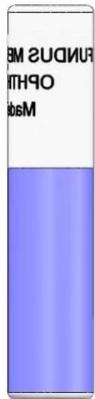


# ILM COAT

For FUNDUS Model

Watch an instructional video: [FUNDUS-IFU](#)



1 - ILM COAT (5cc)

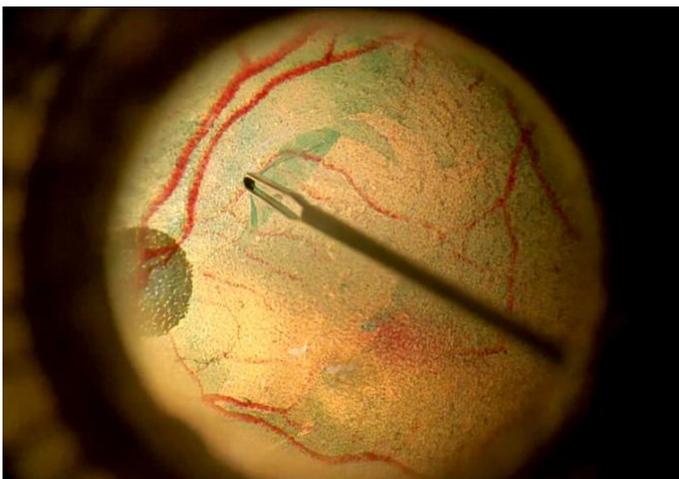
OTHER REQUIRED SUPPLIES  
(NOT INCLUDED):

- BIONIKO FUNDUS Model
- COMPRESSED AIR/  
MANUAL SQUEEZE BULB
- COTTON SWAB

Vitreoretinal instrument skills are some of the most difficult skills to acquire in ophthalmology. Surgeons are required to manipulate small instruments at challenging angles through restricted ports, while using microscope and visualization skills to view the retina through the eye's optics. There is small room for error and the patient's vision is usually at stake, making it very stressful to learn on the job.

BIONIKO's water soluble ILM COAT allows repetitively applying a thin removable membrane to your FUNDUS model (sold separately). This allows practicing VR instrument and microscope skills multiple times with a single FUNDUS model. Demonstrate, practice and refine vitreoretinal instrument skills in a stress-free environment without requiring an animal model.

**ILM COAT IS A DRY SCENARIO- DO NOT FILL WITH FLUID**



**ILM PEEL SCENARIO WITH RETRO-ILLUMINATION**  
Either endo-illumination or retro-illumination, or a combination of both can be used with the FUNDUS model.

If endo-illumination is not available for practice, ILM contrast can be enhanced with retro-illumination with an external light source.

However, when using retro illumination it is still a good idea to insert a second instrument to help stabilize and position the eye, which is a secondary purpose of the illumination probe.

## ILM COAT APPLICATION

1. Remove the ANTERIOR SEGMENT of your FUNDUS Model (See FUNDUS IFU).
2. Remove the ILM COAT main cap and roll-on cap. Dip the tip of a cotton swab into the ILM COAT and apply a drop to the center of the retinal surface of your FUNDUS Model. Remember to close the ILM COAT Vial.
3. Spread ILM COAT drop with compressed air. Start gently spreading with a steady but slow flow in the center of the drop, and gradually increase intensity to spread to desired thickness and extension. Keep drying until there is no more specular reflections from wet spots. Membrane will have a satin finish when dry.

### ILM COAT IS A DRY SCENARIO- DO NOT FILL WITH FLUID

**BASIC PEEL SCENARIO:** Create a defined central patch with defined edges. This will allow lifting the membrane from the patch edges without creating an initial flap. Creating the initial flap of an ILM peel is a critical and difficult step.

**ADVANCED SCENARIO:** Apply a slightly larger drop of ILM COAT and spread to cover the entire colored area of retina. With no defined edge, the user must now create a flap close to the central region of the retina.

4. Re-assemble the FUNDUS anterior segment (See FUNDUS IFU).
5. Removing ILM COAT: Removing the entire membrane when performing repeated peels is encouraged. Keeping the retina dry will provide better results when coating consecutively since the coating is sensitive to humidity. To remove any undesired coating that was not peeled, rub coating off with a wet cotton swab. Any diluted coat left may affect the peeling performance of the next coat. Use at least a second wet swab to ensure retina is clean (the cotton swab should come out white). Dry with a cotton swab and air before re-applying new coating. **Coat may not dry if model is wet or humid.**

## INSTRUCTIONS FOR CARE

- Store in a **cool, dry** and **dark** place (a drawer will be fine).
- ILM COAT is non-toxic and safe to handle. Care should be taken not to stain skin, clothing or other surfaces. Clean any spills with soap and water.
- Not for human consumption. For research use only.

## FAQ

- **Q: Can I use vitreous substitute with a coated model?**

**A:** The water soluble ILM COAT is meant to be used dry. Although it will soften in contact with most vitreous substitutes, the ILM COAT can be used with a vitreous substitute for visualization effects during vitrectomy scenarios.

