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1

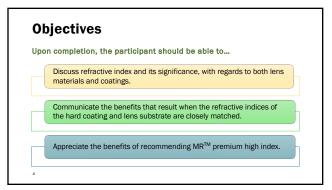
Financial Disclosure Statement

Andrew Bruce has received honorarium from:

- · VSP Optics/UUniversity
- Mitsui Chemicals America, Inc.
- · Optical Training Institute
 - · All relevant relationships have been mitigated
 - He has NO financial interest in any product presented in this course.

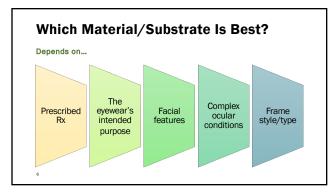
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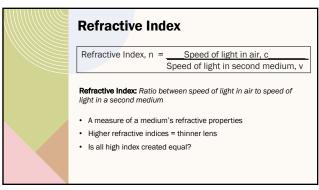
Index Matching For Optical Excellence ABO Approved Level II Course Written by Andrew S. Bruce LDO, ABOM, NCLEM, FCLSA

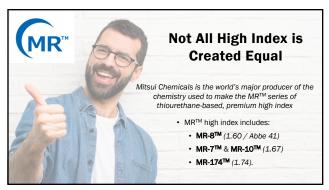


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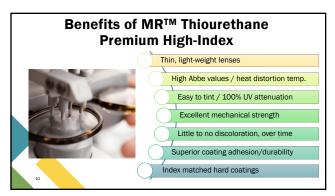








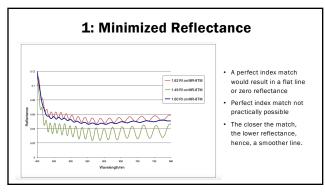
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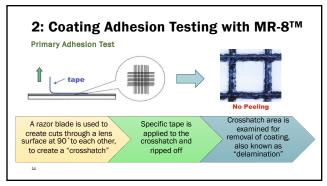


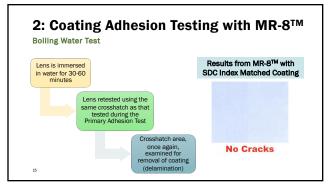
Acrylic High Index • Many incorporate hard coatings index-matched for low index resins, NOT high index substrates • Creates an index mis-match • Light perceives the coating-substrate interface as two separate entities • Results in less-than-ideal outcomes.

11

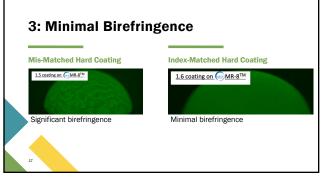
Key Benefits of Index Matching 3: Minimal Birefringence 1: Minimized 2: Strong Coating Adhesion Light perceives the Demonstrates Perceived single coating-substrate interface as a single entity interface results in superior durability in industry standard testing to withstand minimal birefringence Delivers optimal clarity daily wear and tear The closer the index matching, the lower reflectance





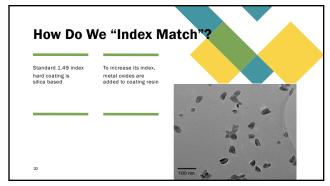


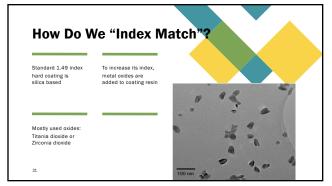
2: Coating Performance Test Results Hard Coating Refractive Index 1.60 Primary Adhesion Test 100% 100% Boling Water Test (After 30 Minutes) Bayer Test 3.7 (on MR-8TM) 2.7 (on MR-7TM) Bayer Test & Bayer Ratio: • Measures haze gain on coated lens vs. uncoated CR39 reference lens • Bayer ratio is a measure of the scratch resistance of a coated lens vs. uncoated reference lens.

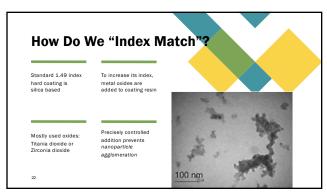






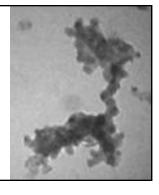






Nanoparticle Agglomeration

- Clumping together of metal oxide nanoparticles
- Can result in degraded quality and "spotty" lenses
- MRTM series hard coatings comply with strict QC standards
- Ensure great performing lenses.



23

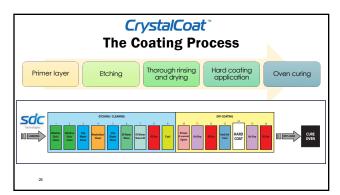
CrystalCoat*

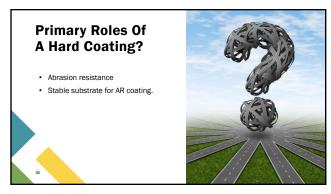


Application Requirements

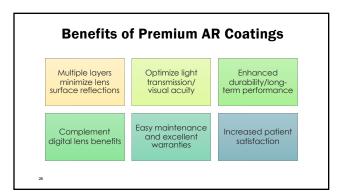
MR[™] substrates require:

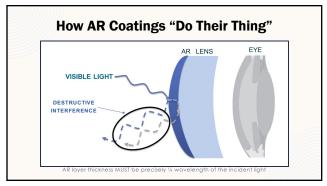
- Contamination-free environment
- Primer layer or caustic etching under optimized conditions
- Sufficient curing to ensure complete caustic removal from the lens.

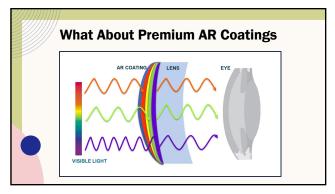


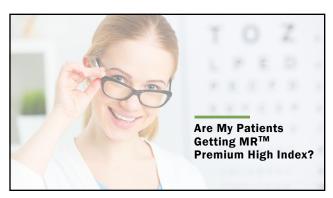














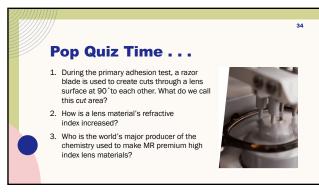
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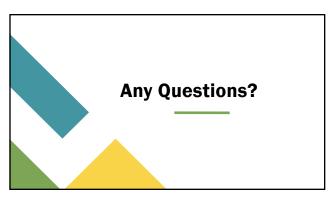
Summary

Patients rely on their optician to recommend the best eyewear solutions. This includes frames, lens designs, materials, and enhancements, based on their lifestyle needs.

Recommend MR^{TM} premium high index. MR^{TM} premium high index provides patients with thin light-weight lenses, combined with superior performance and index-matched hard coatings.

When the refractive indices of the lens and hard coating are closely matched, optimal vision and cosmetics are achieved. $MR^{TM} \ high \ index \ and \ hard \ coatings \ from \ SDC \ Technologies \ are \ index \ matched \ for \ optical \ excellence.$





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