

**Spectrum
Coatings
Limited**



Independent Ophthalmic Lens Coating Specialists

Spectra Anti Reflective Coating

SpectraPlus Anti Reflective Coating

Spectra-X Anti Reflective Coating

Lens Tinting

2 Year Guarantee

‘Quality will never be compromised at Spectrum’

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SPECTRA Anti-Reflection Coating

SPECTRA is a multi anti-reflection coating. A cold process i.e. the substrates are not heated up during the coating procedure. An IPC (ion pre-cleaning) stage is followed by the deposit of the Broadband anti-reflection coating and the deposit of the water-repellent layer respectively.

SPECTRA AR is a basic broadband AR coating for all common substrate materials such as mineral glass, hard coated lenses e.g. CR39, PC and high index materials and transition lenses.

This is the only available process for plastic cut lenses and unfortunately, due to complex process procedures, we cannot offer any form of guarantee.

Glass cut lenses are covered by our normal process guarantee.

All enquiries are welcome and further information can be obtained from our Technical Department by telephoning us on 0161 203 9000 or emailing mail@spectrum-coatings.co.uk





SPECTRAPLUS Hard Anti-Reflective Coating

SPECTRAPLUS is our Hard Coated Anti-Reflective Coating for all types of plastic lenses. It is most important that when applying a multi layer Anti-Reflective Coating to plastic lenses, a good solid base should first be applied. Specifications include a unique Hard Coat formula which when applied to your lenses gives that solid base required ready to receive our multi layer Anti-Reflective coating. Spectrum Coatings team of highly experienced technicians have invested both time and money into developing **SPECTRAPLUS** a solution for modern thinner and higher index lenses.

History tells us that Optical Lenses such as 1.56, 1.6, Transition and R.L.X. have been recognised as problem lenses with a high percentage of coating failures. We believe that **SPECTRAPLUS** will alleviate these problems.

Generally lenses are manufactured with a hard coating lacquer on both surfaces and in the past coating companies have removed the Hard Coating from the back surface leaving the lens exposed, Anti-Reflective coatings are then applied the result more often than not were that lens application failed. Our **SPECTRAPLUS** process is revolutionary in that it completely removes all original lacquers. We then apply a coating of a lacquer developed exclusively by Spectrum Coatings Ltd using a formula of solutions created by our highly qualified technicians.

The lacquer designed by our technicians will match all mid index lenses from 1.5 to 1.67.

On occasion Newton Rings may well show through certain High Index lenses however our lacquer will minimise this common fault.

It is important to note that our process is used on uncut lenses only.

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SPECTRA-X Anti Reflective Coating

SPECTRA-X is our top of the range hard coated Anti-Reflective coating for all types of plastic lenses. We use the latest and most advanced thin film product along with 'state of the art' cleaning and hard coating technology for application of broadband multilayer Anti-Reflection coatings. Our process virtually eliminates all lens reflections making it perfect choice for today's tortuous lifestyles.

The lenses have enhanced protection against scratches and are easier to keep cleaner than ordinary AR Coatings.

SPECTRA-X coated lenses use the most advanced technology from 5 major companies to eliminate previous performance issues of AR coatings.

Our process involves a lacquer application saturated with additional primers and unique formula, the lens is then processed in our CCS II pro machine and finished with an *EVERCLEAN™ top coat.

*EVERCLEAN™ the new super hydrophobic and oleophobic topcoat developed by Umicore Thin film products. EVERCLEAN™ makes coated lenses; water, oil and grease repellent, it gives the highest possible cleaning comfort for coated lenses and is very resistant to abrasion and combined action of UV, humidity and temperature.

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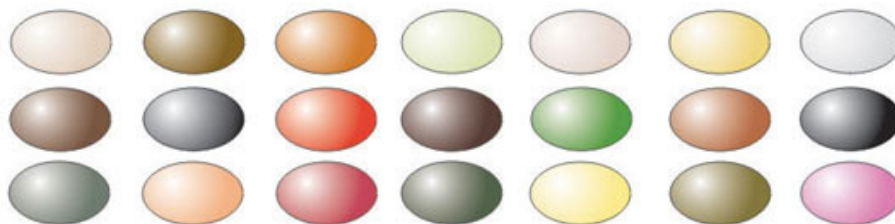
Lens Tinting

Before a lens can be tinted any previously applied anti-reflective coating must be removed, historically this has caused many lens tinting companies problems, Spectrum Coatings Ltd have now addressed this problem with a new technology developed especially to eradicate this problem.

With computer-controlled accuracy, dyes are heated within $\pm 1^\circ$ of the desired temperature this additional 5° offers scratch-resistant, higher index 1.60 and 1.67, and polycarbonate lenses can be tinted with even colour balance at a much faster rate due to a deeper penetration of the dyes.

Our lens tinting is a bespoke service; we can mix and create all the colours of the spectrum.

The dyes are uniformly mixed with automatic magnetic stirring bars for accuracy and consistency, an automatic fluid level detector begins the process and our trained operators choose the time needed for dyeing; spinning can also be selected, this eliminates the risk of bubbles that may occur during the dipping process ensuring that a softer gradient tint is achieved.





Customer Care & Two Year Guarantee

Spectrum Coatings Ltd is so confident about the longevity of our Anti Reflective coatings that we offer our Spectraplus full and comprehensive guarantee on each anti-reflection coated lens.

SpectraPlus Anti Reflective Coating

Spectra-X Anti Reflective Coating

Spectra Anti Reflective Coating

Maintenance instructions

To maintain the quality of your lens coating, please follow these simple care instructions:

- Wash lenses in luke warm water or ask your optician for an anti reflective cleaner or lens cloth
- Never rub the surface with dirty clothes or tissues, we recommend a soft clean tissue
- Never expose your lens to direct heat above 100°C for long periods of time
- Hairspray and many harsh solvents should be kept away from lenses

Please abide by the above recommendations to ensure your Guarantee remains valid.

Our continuous care extends to clients by keeping a comprehensive archive of coating batches over a 2 year period using our in-house software developed by D.R.S. Information archive includes order number, quantity and the coating applied. Regular care calls to clients are conducted as a matter of course to help improve our service.