Fospia stands at the exciting forefront of developing next generation materials in optics and photonics as well as in optical solutions that support medical, sensing, strikes, missile defense, display, 3D printing and etc. We aim to build a brighter future through better optical solutions.

Fospia takes pride in developing the world’s highest performing UV coating materials at the mass production scale. Approved by the Korean government, Fospia’s R&D center is equipped with state-of-the-art facilities that include the full line of measurement and characterization tools and production facility. This includes a cleanroom that is maintained at 1,000pcs. Our highly motivated and skilled labor force with decades of experience guarantee customer’s satisfaction along with the most effective and efficient business management.

In meeting industrial development and production demands, we work closely with our customers to embody their experiences and challenges, to accommodate their specific requirements. Our dedication to excellence brings the world’s finest portfolio of standard and customized optical materials.

Your trust will undoubtedly motivate Fospia to endeavor to develop the world’s most reliable products with the highest quality.

Fospia welcomes your optical material challenges and requests. Please, do not hesitate to contact us.

**About us**

**Head office & Sales**

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PFOA and PFOA Precursor Free, satisfying the Environmental regulations by EPA.

Environment friendly Plastic Optical Fiber (PMMA), Plastic Optical Fiber, HPCS, Specialty Fiber

Optical Applications:
- Biomedical Fibers
- Medical Device

High thermal and high power resistance
- Enhanced endurance and moisture resistance, and excellent adhesion to silica.
- Optical Applications: High Power Laser Fiber
- High Temp. Thermoplastic Coated Specialty Fibers

Environment-friendly Plastic Optical Fiber
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- Optical Applications: High Power Laser Fiber
- High Temp. Thermoplastic Coated Specialty Fibers

Fospia shares some of the customers’ feedbacks for XPC!

**EFiRon XPC** has the fastest curable properties (0.5J/cm²).
**EFiRon XPC** has high modulus allowing high temperature high optical power (400-1,000 watt) with a proper cooling device.
**EFiRon XPC** has high thermal resistance, showing 1.5 times higher maximum pump than other competing polymer resins. **EFiRon XPC** is suitable for high power single coating application due to no stickiness on the surface after cured, resulting in no need to overclad the fiber. **EFiRon XPC-373** was referenced in a customer’s research paper (the CLEO paper by Fiber Optics Research Center of the Russian Academy of Sciences, Moscow). The estimated pump power density on the surface of the XPC-373 cladding exceeded 630 W/mm², the highest value ever reported and 1.5-7 times higher than that of five other coating methods tested. The long-term reliability of the device was tested for 170 hours of continuous operation.

**APC Series**
- Silane Technology
- Super Adhesion
- Thermal Resistance

**HDC Series**
- Silane Technology
- Super Adhesion
- Humidity Endurance

UV Curable Ink
- Optimized for coloring of optical fibers, high solvent resistance, good adhesion and optimal viscosity along with rapid cure property.

**Fospia UV Ink** has the fastest curing rate (line speed can be applied to 3000mm/). Its vividness in color and excellent properties yield 15%~30% less dosage, resulting in cost reduction. It creates less dark fume reducing maintenance expenses and production problems. Its high Tg adds a protective character.

Primary & Secondary Coating Resin

**Fospia’s Fast UV curable coating products are suitable even for harsh environment including colder regions.** The coating resin has high-quality homogeneity and clarity along with the distinctive properties.

**Primary Coating**: High Elongation and Adhesion to glass and Low modulus and Tg providing high flexibility and minimizing the potentials for production complications.

**Secondary Coating**: High modulus and Tg providing high protection.

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**FOS-1000** is the fastest UV curable resin applicable to 3D printers of Stereolitography (SLA) type and DLP type. Our products come in both Hard and Soft types, and in various color.
- Curable at wavelengths of the UV-A, UV-B, UV-C.
- Extremely low shrinkage percentage after cured.

UV curable polymer matrix material for fiber ribbons uniformly coats fiber ribbons.
- Excellent adhesion and stripping breakaway capability
- High speed spooling
- Optimized Young’s modulus for post process
- High chemical and water resistance