About us

● Luvantix was founded in 8th November 2013, operating with healthy financial stability and well-established manufacturing facility.

● Luvantix provides optimal solutions to the photonic and electro-optic industry, with our patented UV curable polymer technologies. We have experienced man power in both R&D and production along with access to research fiber drawing tower, to rapidly cope with customer demands. Our products have been used worldwide and their quality has been approved in the global standards.

● Luvantix is the only intellectual proprietary right owner of UV curable polymer technology for fiber optic applications in Korea with exclusive Korean patents. We are further developing next generation optical polymers for optical communications and sensing using our direct access to optical fiber drawing tower and waveguide fabrication facilities.
**Fast UV-Curable Resin**

Primary/Secondary Optical Fiber Coating

UV curable Resin for fast drawing process

- Acrylate based coating optimized for fast optical Fiber drawing process. Customer designed glass transition temperature, fast cure property, color-invariant, water-resistance, and high reliability under Telcordia specifications

- No Delamination at hot water
- Long-term reliability under -40~80°C, 80% Humidity
- Non-yellowing color invariance
- Low microbending loss
- Fast Curing for high speed drawing (over 1,800 m/min line speed)

**Low Index Polymer Coating for Hard Polymer Cladding Fiber (HPCF)/ Double Cladding Fiber (DCF)**

UV curable acrylates with a wide range of low refractive Index, which can serve as a cladding for silica optical fibers, and waveguides. High oxidative and hydrolytic stability, low optical loss, and high mechanical durability

- High temperature resistance
- Low refractive index from 1.363 to 1.452
- Customer optimized Young’s modulus
- Low optical loss
- Long shelf life (1 year)
Color UV Curable Ink for optical fiber ribbon

Optimized for coloring of optical fibers, with rapid cure property, custom designed colors, high solvent resistance, good adhesion property, optimal viscosity.

- Rapid cure property (> 2,100 m/min line speed)
- EIA-359-A compliant, British & France telecom. color specifications compatible.
- High solvent resistance and adhesion property
- Optimal viscosity for high speed coloring process

Ribbon Matrix Resin

UV curable polymer matrix material for fiber ribbons. Uniformly coating fiber ribbons, and easily removed without debris to allow efficient splicing and connectorizing process for 4, 8, 12 fiber ribbons

- Excellent striping breakout capability
- High speed spooling
- Optimized Young’s modulus for post process
- High chemical and water resistance
Primary/Secondary Coating

- **10-1018357**, “Photo-curable coating composition having improved hot water resistance”, KR
- **10-1006989**, “UV curable coating composition having improved water resistance and optical fiber using the same”, KR
- **10-1001656**, “Radiation curable resin composition and optical fiber made by using thereof”, KR
- **10-0596492**, “Photo-curable polymeric resin composition for optical fiber in-line coating”, KR

Low Index Polymer Cladding

- **10-0500191**, “UV-curable resin composition for cladding layer of optical fiber”, KR
- **10-1003002**, “Resin composition for cladding layer of optical fiber”, KR
- **10-1051287**, “Radiation curable oligomer, radiation curable resin composition comprising thereof and optical fiber.”, KR

Functional Polymer Materials

- **10-0498189**, “Method for producing a preform for graded-indexplastic optical fiber by high speed revolution.”, KR
- **10-0487025**, “Photo-curable resin composition for optical waveguide and optical waveguide prepared therefrom”, KR
- **10-1025721**, “Non-Solvent Type, UV-Curable White Ink Composition”, KR
- **10-0571475**, “Flame retardant resin composition for coating optical fiber ribbon”, KR
- **10-0579007**, “Photo-curable and antistatic resin composition for optical fiber coating”, KR
- **10-0387535**, “Optical adhesive composition comprising colloidal silica filler and method for preparing the same”, KR
- **10-0502993**, “Optical Adhesives for optical transmission parts”, KR
- **10-0401134**, “Methods for preparing organic—inorganic hybrid, hard coating liquid comprising the hybrid, and hard coating thin film using the liquid”, KR
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