



Bridge Coatings

Fluorinated Resins
for Ultra-Durable Coatings

Akashi-Kaikyo Bridge, Kobe

The logo for AGC, consisting of the letters "AGC" in a bold, blue, sans-serif font, with a small red square integrated into the letter "G".

AGC

Your Dreams, Our Challenge

Asahi Glass was founded in 1907 and launched its chemical division ten years later. AGC Chemicals initially focused on the production of soda ash, a raw material used in the production of glass. Over the years the chemical company has specialised in the development of gas, solvents, life science products, fluoropolymers and fluorinated materials.

The innovative fluoroethylene vinyl ether (FEVE) resin for coatings, LUMIFLON™, an OH functional polyol, was introduced by AGC Chemicals in the early 1980s. Coatings and paints based on LUMIFLON™ ensure that the original appearance of buildings, vehicles, windmills and bridges is maintained for several decades.

KEY FEATURES

Performance

- Corrosion protection
- Colour & gloss retention

Certifications

Systems based on LUMIFLON™ resins can pass the following standards:

- ISO 12944-5M/I
- ISO 20340
- Japan Road Association Standard
- USA NTEP, R-O31
- NORSOK M-501 Edition 6, System No.1 Tidal & Splash

Sustainability

- Low maintenance, due to LUMIFLON™’s durability, longevity & weatherability
- Low paint consumption
- Reduced emissions

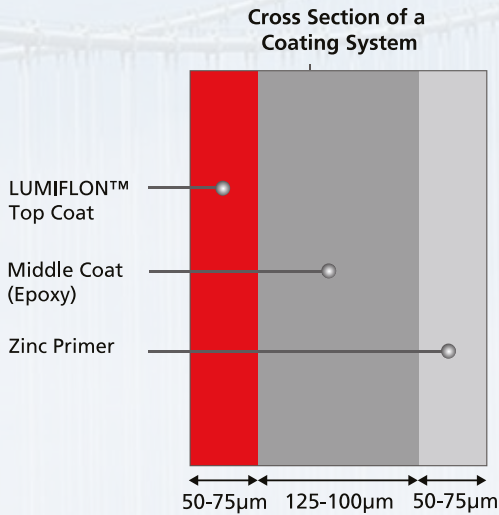
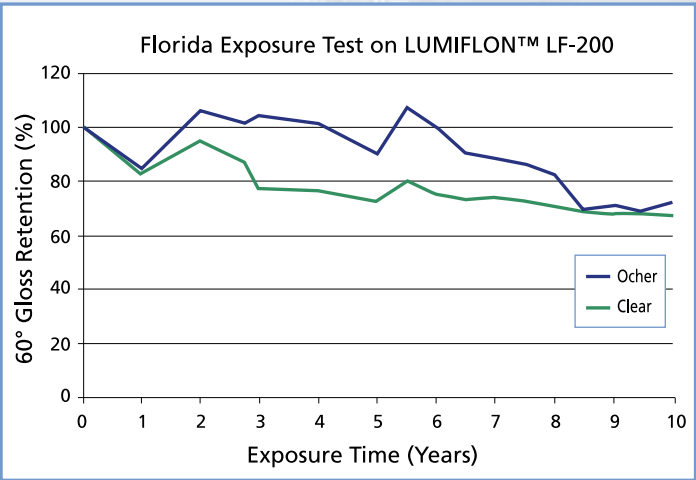
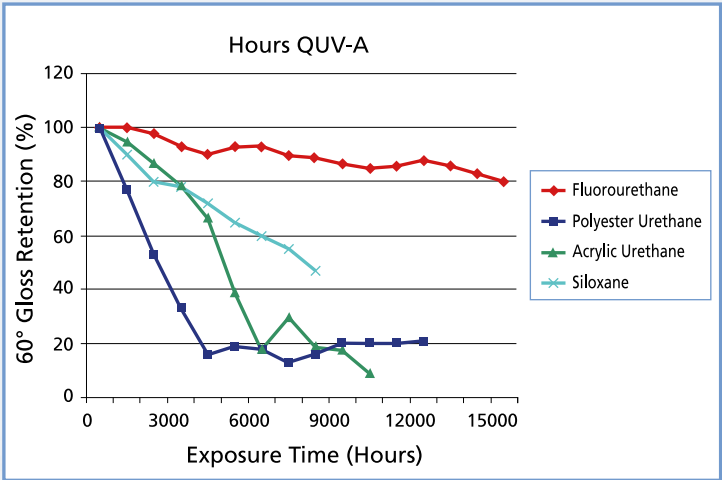
Low Cost

- Long life cycle
- Reduced traffic congestion, as only low maintenance is required

Flexibility

- Wide application window - curable from 10°C to 230°C
- Suitable for a wide range of substrates, including steel, concrete, fibreglass, aluminium & polycarbonate
- Available in solvent, waterborne & powder grades

WEATHERING TESTS



CASE STUDY - DAIICHI MUKAIYAMA BRIDGE

Fluoropolymer topcoats have been used on bridges in Japan for more than 30 years. The Daiichi Mukaiyama Bridge was constructed in the mountainous region of Hiroshima and has benefited from a LUMIFLON™ based coating since its completion in 1987.

BENEFITS

- Excellent colour & gloss retention
- Low chalking
- No corrosion



A SELECTION OF EUROPEAN PROJECTS



Expo Bridge, Milan (Innoventions)



Adige Bridge, Trento (Colorificio Zetagi - Veneziani)



Finzels Reach Bridge, Bristol (Unova Products)



Gleisbogen Bridge, Zurich (Monopol Colors)

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