



# SunPrism

Solar cover glass "Better appearance: same panel"

# SunPrism is BMCs structural color coating for cover glass of building-integrated photovoltaic and solar collector panels. The coating improves the aesthetics and freedom-of-design of panels with minimal loss in cell efficiency.



- BMCs SunPrism coatings enable the coloration of building-integrated photovoltaic (BIPV) panels with minimal loss in cell efficiency. The coating constitutes of a multilayer interference stack, which provides a structural color to the cover glass. Since here coloration is not based on light absorption, transmission losses can be minimized and a high cell efficiency achieved.
- SunPrism complements the usual black or blue color of BIPV modules with numerous alternative colors. Therefore it improves the aesthetics of BIPV and increases the freedom-of-design for architects, construction companies and home owners.
- The color of the cover glass can be pre-designed upon request using BMCs SunPrism coatings and virtually any color can be prepared including architecturally relevant colors such as terracotta and light gray.
- SunPrism can be used on BIPV modules for roof tiles, building façades and other structural elements, as well as on solar collector panels.
- BIPV modules using SunPrism show high cell efficiencies and power output. The power output is up to 20% higher than for modules colored with traditional pigments.
- Using BMCs SunPrism, color glass facades can be built which are not only aesthetically pleasing, but also generate electricity.
- The SunPrism coating is prepared by wet-deposition. The coating material and deposition method are low in costs. The coating is robust with a pencil hardness of > 2H.
- The coatings durability and colorfastness has been validated in accelerated lifetime tests and in real environment in a test house for more than 3 years. Currently, product demonstration of 300 colored SunPrism panels in occupied buildings is ongoing.



## Contact BMC – Sustainable Buildings

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