



# 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 predesigned 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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