

Ocean-Inspired Series

Solarcool® Reflective Glasses

PPG's earth tone series of **Solarcool** Reflective Tinted Glasses have inspired a generation of architects and designers with an expressive palette of color.

Now PPG is taking a dramatic new step in the evolution of **Solarcool** reflective glasses with the addition of a new series of ocean-inspired tints. Drawn from **Oceans of Color**®, our collection of ocean-inspired tinted architectural glasses, these five new tints offer the best of both worlds: a distinct and stunning array of colors together with the premium performance today's building codes demand.

Whether you want the startling clarity of the marine-blue Atlantic, the soothing rhythms of the aqua-green Caribbean, or the new strikingly rich blue of the Pacific, **Solarcool** reflective glasses have the glazing options you need to make your architectural vision a living reality.

Ocean-Inspired Series of Solarcool® Reflective Glasses

Solarcool® Caribia® Glass

A member of PPG's industry-leading collection of spectrally selective architectural glasses, **Solarcool Caribia** Glass creates a softly reflective, warm, green appearance when glazed with the reflective coating facing inboard (#2). When glazed with the reflective coating on the outboard surface (#1), higher visible light reflectivity mutes the aqua-green hue to create a more metallic appearance that highlights shifting light conditions and the surrounding landscapes.

Solarcool® Solexia™ Glass (formerly Solarcool Solex®)

The light green color of **Solexia** Glass, part of the **Oceans of Color** collection, is an exceptional complement to the soft reflectivity of the **Solarcool** coating. When glazed with the reflective coating facing inboard (#2), **Solarcool (2) Solexia** Glass has a natural green reflectivity that enhances the beauty of its surroundings while harmonizing with other natural building materials. To achieve a higher visible light reflectivity, **Solarcool (1) Solexia** can be glazed with the reflective coating on the outboard surface (#1) to capture the mood of changing skies and the neighboring environment.



Emerald Stone Condos

Location: Calgary, Alberta, Canada

Product: Solarcool® Azuria™ / Solarban® 60 Glass

Architect: BDKI Architects

Glazing Contractor: Babrys Glass

Glass Fabricator: Oldcastle BuildingEnvelope™

Solarcool® Azuria™ Glass (formerly Solarcool Azurlite®)

Solarcool Azuria Glass's stunning aquamarine tint can be captured with the reflective coating on the inboard surface (#2) or take on a more shimmering quality with the addition of the reflective coating on the outboard (#1) surface. In either case, this exceptionally attractive glass evokes the soothing qualities of the azure blue sea.

Solarcool® Pacifica™ Glass

The richly saturated dark-blue hue of **Solarcool Pacifica** Glass can be achieved by glazing the inboard surface (#2) with the reflective coating. For a higher visible light reflectivity, the **Solarcool** coating is applied to the outboard surface (#1) in order to feature the variations of the sky and adjoining scenery.

Solarcool® Reflective Tinted Glasses by PPG



Ocean-Inspired Series Tints

Earth-Tone Reflective Tints

Solarcool® Reflective Glasses

Fabrication and Availability

Solarcool glass provides maximum processing flexibility and can be easily laminated, tempered or heat-strengthened to satisfy increased strength or safety glazing requirements. **Solarcool** glass is available exclusively through the PPG Certified Fabricator Network of nearly 100 glass fabrication locations throughout the U.S. and Canada, and international representatives in 25 countries.



Additional Resources

EcoLogical Building Solutions from PPG encompass a number of environmentally sustainable architectural glass products, including **Solarcool** glass. For more information or to obtain samples of any PPG glass product, call 1-888-PPG-IDEA (774-4332), or visit www.ppgideascesapes.com. All PPG architectural glass is Cradle to Cradle Certified^{CM}.



PPG IdeaScapes™ Integrated products, people and services to inspire your design and color vision.

One-Inch Insulating Glass Unit Comparisons Using 1/4" (6mm) Solarcool® Glass, Ocean-Inspired Series

Glass Type	Transmittance			Reflectance		U-Value (Imperial)		European U-Value	Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time				
Coated											
SOLARCOOL® (Reflective) Glass											
SOLARCOOL (1) SOLEXIA + Clear	7	27	18	37	31	0.47	0.50	2.81	0.32	0.28	0.96
SOLARCOOL (2) SOLEXIA + Clear	7	27	19	24	12	0.48	0.50	2.82	0.36	0.31	0.87
SOLARCOOL (1) CARIBIA + Clear	6	23	12	37	30	0.47	0.50	2.81	0.25	0.22	1.05
SOLARCOOL (2) CARIBIA + Clear	6	24	12	19	9	0.48	0.50	2.82	0.30	0.25	0.94
SOLARCOOL (1) AZURIA + Clear	10	23	11	37	30	0.47	0.50	2.81	0.25	0.21	1.10
SOLARCOOL (2) AZURIA + Clear	10	24	12	20	10	0.48	0.50	2.82	0.29	0.25	0.95
SOLARCOOL (1) PACIFICA + Clear	4	14	10	36	30	0.47	0.50	2.81	0.24	0.21	0.69
SOLARCOOL (2) PACIFICA + Clear	4	15	11	10	7	0.47	0.50	2.81	0.29	0.25	0.59
SOLARCOOL® (Reflective) Glass with SUNGATE® 500 Low-E (3)											
SOLARCOOL (2) SOLEXIA + SUNGATE 500 (3) Clear	6	25	15	24	13	0.35	0.35	1.96	0.31	0.26	0.98
SOLARCOOL (2) CARIBIA + SUNGATE 500 (3) Clear	5	22	10	19	10	0.35	0.35	1.96	0.24	0.20	1.11
SOLARCOOL (2) AZURIA + SUNGATE 500 (3) Clear	8	22	10	20	10	0.35	0.35	1.96	0.23	0.20	1.11
SOLARCOOL (2) PACIFICA + SUNGATE 500 (3) Clear	3	14	9	10	7	0.35	0.35	1.96	0.23	0.20	0.70
SOLARCOOL® (Reflective) Glass with SOLARBAN® 60 Solar Control Low-E (3)											
SOLARCOOL (2) SOLEXIA + SOLARBAN 60 (3) Clear	3	24	10	24	15	0.29	0.27	1.55	0.22	0.19	1.26
SOLARCOOL (2) CARIBIA + SOLARBAN 60 (3) Clear	2	21	8	19	10	0.29	0.27	1.55	0.19	0.16	1.30
SOLARCOOL (2) AZURIA + SOLARBAN 60 (3) Clear	4	21	8	19	10	0.29	0.27	1.55	0.19	0.16	1.31
SOLARCOOL (2) PACIFICA + SOLARBAN 60 (3) Clear	2	13	6	10	8	0.29	0.27	1.55	0.17	0.15	0.89
SOLARCOOL® (Reflective) Glass with SOLARBAN® 70XL Solar Control Low-E (3)*											
SOLARCOOL (2) SOLEXIA + SOLARBAN 70XL (3) Clear	1	22	8	24	16	0.28	0.26	1.50	0.20	0.17	1.28
SOLARCOOL (2) CARIBIA + SOLARBAN 70XL (3) Clear	1	19	6	19	10	0.28	0.26	1.50	0.18	0.15	1.27
SOLARCOOL (2) AZURIA + SOLARBAN 70XL (3) Clear	1	19	7	19	10	0.28	0.26	1.50	0.18	0.15	1.27
SOLARCOOL (2) PACIFICA + SOLARBAN 70XL (3) Clear	1	12	4	10	8	0.28	0.26	1.50	0.15	0.13	0.89

*Solarban 70XL for annealed applications is applied to **Starphire** glass; heat treated applications will require either clear or **Starphire** glass depending on manufacturing process.

All performance data calculated using LBNL Window 5.2 software, except European U-Value, which is calculated using WinDat version 3.0.1 software. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit www.ppgideascesapes.com or request our Architectural Glass Catalog.

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