

SOLAR REFLECTANCE INDEX (SRI) VALUES OF DURADEK MEMBRANES

What is SRI?

A composite index called the solar reflectance index (SRI) is used by the U.S. Green Building Council and others to estimate how hot a surface will get when exposed to full sun. The temperature of a surface depends on the surface's reflectance and emittance, as well as solar radiation. The Solar Reflectance Index (SRI) is used to determine the effect of the reflectance and emittance on the surface temperature, and varies from 100 for a standard white surface to zero for a standard black surface. The SRI is calculated using ASTM E1980, "Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces." Materials with the highest SRI are the coolest and the most appropriate choice for mitigating the heat island effect.

Solar Reflectivity for Duradek Membranes

View full report for hemispherical spectral reflectance and total emittance values.

Specimen Code	% Solar Reflectance	SRI
ULTRA HERITAGE AGATE	48.4	57
ULTRA HERITAGE SUNRISE	59.4	69
ULTRA SUPREME CHIP SONOMA	47.9	57
ULTRA SURCOSEAL GREIGE	38.7	45
ULTRA SURCOSEAL #2 SUEDE	30.0	34
ULTRA SURCISEAL #3 GREY	30.2	34
ULTRA CLASSIC #4 BARLEY	33.9	39
ULTRA CLASSIC #5 STEEL	40.3	47
ULTRA CLASSIC #6 SANDSTONE	30.0	34
ULTRA SUPREME CHIP #7 GRANITE	38.1	44
ULTRA SUPREME CHIP #8 TAUPE	42.6	50
ULTRA HERITAGE #11 SIENNA	34.8	40
ULTRA HERITAGE #12 ASPEN	29.7	34
ULTRA CORK #13 ULTRA CORK	31.0	35

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Okanagan

Specimen Code	% Solar Reflectance	SRI
OKANAGAN #14 FLINT	35.0	40
OKANAGAN #15 LEATHER	38.2	44
OKANAGAN #16 LINEN	54.8	66

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