



PRISM ADMIXTURES FOR COLOR-CONDITIONED CONCRETE

SRI VALUES FOR PRISM ADMIXTURES FOR COLOR-CONDITIONED CONCRETE

Standard and Custom Colors

Prism admixtures may contribute to earning LEED® points under the Sustainable Sites category: 7.1 Heat Island Effect, Non-Roof for New Construction, Existing Buildings, Schools, and Core and Shell by having a Solar Reflectance Index (SRI) of at least 29 as measured by ASTM E903 or ASTM C1549.

SRI values from field installations can differ from those listed due to the materials used, finishing practices and a variety of other conditions. The color achieved is influenced by local materials. Prism Technical Data sheet requires that a mockup be completed under actual jobsite conditions using each color, and that each SRI be determined and approved prior to beginning the job itself.

PRISM PIGMENTS - SOLAR REFLECTIVE INDEX

PRISM	COLOR	SRI	PRISM	COLOR	SRI
P1330.....	Frostberry	23	P2915.....	Autumn Beige	40
P5740.....	Derby	24	P2930.....	Mesa	41
P0820.....	Mauve	24	P4191.....	Sandy Buff.....	42
P9110.....	Slate Gray	27	P1015.....	Copper	42
P1030.....	Copper	29	P1810.....	Bisque.....	42
P0620.....	Coral	29	P0620.....	Watermelon	42
P50815.....	Cocoa.....	31	P1930.....	Rosewood.....	43
P1840.....	Red Barn.....	35	P4110.....	Chestnut.....	43
P2910.....	Caramel Buff.....	37	P6210.....	Shadow	44
P2920.....	Sahara	37	P3110.....	Light Buff	47
P4715.....	Mushroom	38	P3120.....	Light Buff.....	51
P4120.....	Woodchip	39	P2015.....	Cornmeal	52

Solar Reflective Index calculated according to ASTM E1980-01 Standard Practice for calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces, assuming an emittance of 0.9 which is appropriate for concrete.



- Place both concrete and mock ups with water-cement ratios not to exceed .048
- Addition of water may affect both color and SRI
- Placement should be done on compacted sub-grades of uniform bearing capacity and it should be well drained avoid dragging of concrete despot concrete into concrete.
- Reference ACI 303
- Reference ACI 310
- Reference Prism Pigments colored water/cement ratio chart

Average Solar Reflectance

Can be tested by an Independent Authorized Testing Laboratory

PRISM PIGMENTS - SOLAR REFLECTIVE INDEX		
MIX NAME	SOLAR REFLECTANCE	SRI
6 sack mix 2% yellow.....	0.48	56
6 sack mix 4% yellow.....	0.43	49
6 sack mix 2% red	0.44	50
6 sack mix 4% red	0.42	48
6 sack mix 2% white 600.....	0.52	61
6 sack mix 3% white 600.....	0.54	64
6 sack mix 4% white 600.....	0.58	71
6 sack mix 2% Sahara.....	0.41	46
6 sack mix 2% yellow 2% 600 white	0.44	50
6 sack mix 4% yellow 4% 600 white	0.47	54
6 sack mix 2% red 2% 600 white	0.44	50
6 sack mix 4% red 4% 600 white	0.42	48

These tests should be done in medium gray at a 6 sack mix. Results may vary when using darker cements.