Reflective Roof Coatings
Performance comparison chart

* Readings taken with an ambient temperature of 78 °F, in full sun on a windless day

Coating Material	Solar Reflectance (Albedo)	Peak temperature rise over ambient Air	Temperature Reached by surface
Microteja	**0.93**	**5**	**82°F**
Bright white roof coating smooth surface (Elastomeric, Ceramic etc)	**0.80**	**15**	**93°F**
White roof membranes	**0.7- 0.8**	**15-25**	**104°F**
White metal roof	**0.6 - 0.7**	**25-36**	**104- 115 °F**
White mineral coating over tar and gravel	**0.60**	**36**	**115°F**
Aluminum roof coating over tar or asphalt	**0.55**	**51**	**130°F**
Dark red tile	**0.18 - 0.33**	**62-77**	**142 - 156 °F**
Black material tar or asphalt	**0.05**	**90**	**170 °F**

* Based on research at the following laboratories:
- Oak Ridge National Laboratory,
- Lawrence Berkeley National Laboratory,
- Florida Solar Energy Center
- ITESM (Monterrey, Mexico)