SOLAR CONTROL

高效隔热方案

NANO ZONE

PROTECTING PERFORMANCE

FUMIN

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www.nano-zone.net

Our Solar Control solution uses patented technology from FUMIN, Japan. It provides excellent performance in blocking out heat from solar rays in glass structured buildings while letting in visible light. The blocked heat rays are NOT reflected but spread across the coated surface, thus reducing the urban heat island effect around the building. By reducing the temperature in the interior, our Solar Control solution helps save 20-25% power cost of air conditioning annually, as well as reduce maintenance costs and the use of non-environmentally friendly chemicals in large A/C systems.

日本FUMIN专利高效隔热涂层为玻璃建筑提供优良环保隔热方案，同时也让可见光通过，可达到节省空调负荷，而无需增加室内灯光，空调系统负荷减低亦可帮助节省维修费用和温室气体的排放，真正做到节能减排。而且，涂层不会将阻隔之热力反射而形成热岛效应。

Comparison between NANO-ZONE Solar Control technology and traditional heat-reflecting film :
NANO-ZONE 高效隔热涂层与一般隔热贴膜比较 ：

Traditional Film 传统隔热贴膜	NANO-ZONE Solar Control Coating NANO-ZONE 高效隔热涂层
Low visible light transmission 低可见光穿透率	**80% visible light transmission** 80% 可见光穿透率
Difficult to apply on non-flat surfaces 难以贴于不规则玻璃表面	**Easy application on any surface** 易于喷涂在任何玻璃曲面上
May peel off after a very short time 容易剥落	**Effective at least 10 years** 保持 10 年以上效果
Gaps between sections of film 受到贴膜宽度限制，整体容易有夹缝	**Seamless on the surface** 涂层完全无缝
Color of film may fade over time 贴膜容易变色	**No color change** 不会变色
Reflects heat to the surroundings - urban heat island effect 将热力向四周反射，形成热岛效应	**No heat reflection** 热力在涂层表面消散

Temperature difference between coated and non-coated car windows
31.5°C vs 21.8°C

涂上高效隔热涂层之车窗后，车内温度比较
31.5°C 和 21.8°C

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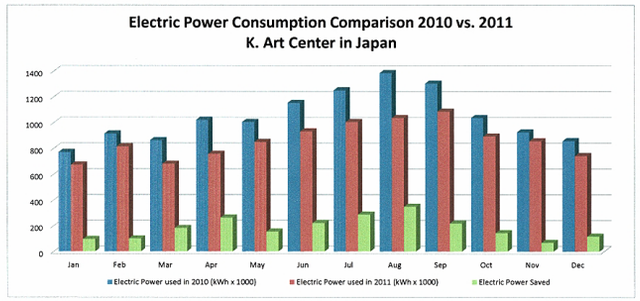
Characteristics
特性

- **Blocks out 70% infrared ray and 90% ultraviolet ray**
  阻隔 70% 红外线及 90% 有害紫外线
- **80% Visible light transmission**
  80% 可见光穿透
- **Reduces indoor temperature by 6-10°C**
  减低室内温度 6-10°C
- **Saves A/C cost by 20-25%**
  节省 20-25% 空调电力支出
- **Superior hardness (9H) to resist cracks**
  高硬度防止断裂
- **Reduces dew formation in winter**
  冬天时减低结露现象
- **Applies to any curved glass surfaces**
  可喷涂于任何形状曲面玻璃表面
- **Effective for more than 10 years**
  效果持续超过 10 年以上

The National Art Center in Tokyo

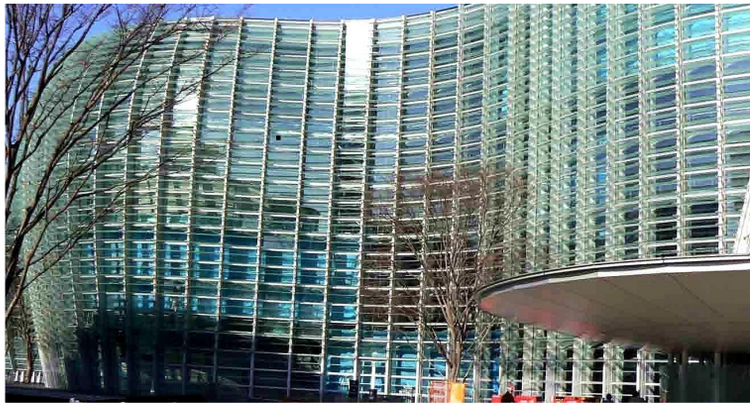
Architect Kisho Kurokawa selected Heat Reflecting glass in 2007, Later placed glass facades film finally

SC COATING in 2011 Total Glass Area 4,700m2 Total Electric Power Saved 2,198,323kWh



Saving of more than 2 million kWh after coated in 2012

2012 年全年节省超过 2 百万度电力



4700 m^2 of glass facade - National Art Museum - Tokyo, Japan

日本东京国立美术馆 玻璃面积 4700 平方米