

# Heat shielding and waterproof paint on roof and wall

## 【Application】

Waterproof, water-repellent function with thermal insulation, thermal insulation effect and high reflection. Achieve heat shielding effect. Exterior walls, roofs, wider the more effective.

Manufacturer

# HYDROSKY

4-11-9, Narihira, Sumida-Ku, Tokyo,  
130-0002, Japan



URL: //www.hydro-sky.co.jp

E-mail: hydro@hydro-sky.co.jp

TEL. +81-3-5637-8834 FAX. +81-3-5637-8874

## SKY Apollo MX SKY Apollo Silver

Fusing aluminum repellent powder with the water repellent effect of "Heritage" by doing so, you can achieve thermal insulation effect by high reflectance waterproof finish present "HydroSky" by combiing with each product, thermal insulation effect can be obtained while repairing leakage from the roof and leak from the outer wall. It is also effective for rust inhibiting such as iron. The burden of individuals and companies due to the energy crisis is increasing only. Thermal insulation reduces indoor temperature changes by 30 to 40%. Air conditioning temperature can be set up reasonably and electricity charges can be drastically reduced.

Measurement of irradiation temperature with 100 W Ref Light bulb



Untreated plate: irradiation test plate back temperature

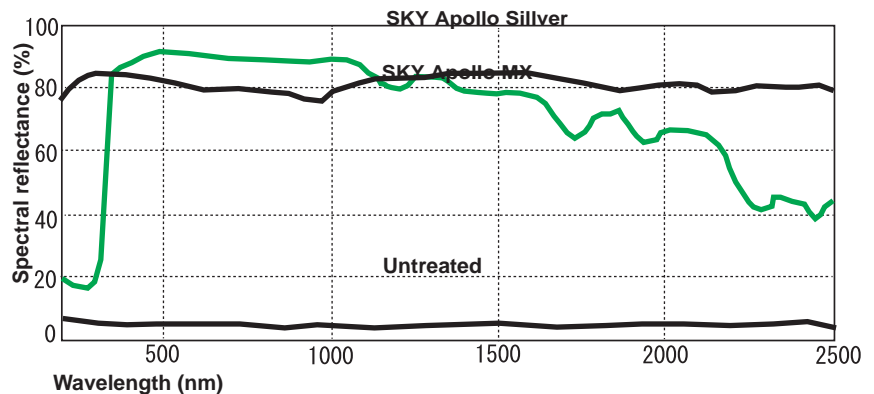


Irradiation test plate backside temperature



## Outline of company experiment

This in-house experiment seals the transparent acrylic board, thickness 5 mm, height 150 mm, width 200 mm, depth 200 mm so as not to be influenced by the room temperature, installing a temperature sensor at the position located on the back of the irradiation test body. As shown in the above picture, a slate roofing material with a thickness of 5 mm was irradiated with a 100 W Ref bulb. Heat shielding effect of about 30 °C or more was confirmed in about 30 minutes. In addition, similar results were obtained in aluminum plate of 5 mm thickness, steel sheet of 3 mm thickness. From this test result confirm the high reflectance of SKY Apollo can do it. It surely prevented external solar radiation and had heat storage inside I will not. The usual heat



material is thicker sheeting and Mortar in many cases, thick coating is done so as to plaster the Le Construction is easy. Normal heat insulation is very easy to install, as it is often to thicken sheets or mortar. Since SKY Apollo Silver applies metal powder, it is excellent in waterproofness and rust prevention effect by strong water repellent without worry of color lean. It can be said that it is a material that excelled in cost performance, such as the gymnasium's roof and factory, the roof of the logistics warehouse and the outer wall, playing a key role in environmental improvement.

## General property

Principal component: Cobalt naphthenate, White spirit, Naphtha, Oxidative polymerization resin, Hexyltrimethoxysilane, Aminopropylmethoxysilane  
Appearance: One-pack  
Packing: 16kg  
Color phase: Silver color (gray color)  
Gloss feeling: Strong gloss  
density: 0.75~0.97g/cm<sup>3</sup> (20°C)  
Viscosity: 10 mPa · s or less  
PH: No data  
Boiling point: 149°C  
Melting point: No data  
Flash point: 44°C  
Ignition point: 288°C  
Odor: Singular smell  
Solubility: No data  
Solubility: A thinner for paint, alcohol, ether, acetone



## Painting standard

Apply a general coating amount of 0.10 to 0.35 kg / m<sup>2</sup> as a guide. Natural drying

## Usage notes [Warning]

- Take enough ventilation inside a sealed room.
- ★ Wear masks and goggles when painting, fear of ignition
- Do not worry about work clothes and tools etc.
- ★ When washing applicator, use thinner for cleaning.