

アドマクールペイントのご案内

A D M A C O O L P A I N T

遮熱塗料(高日射反射率塗料) ADMA COOL PAINT

隔熱原理

超高反射率達90%以上! 節省空調費用30%以上!
隔熱塗料革命性突破: 採用日本豐田與信越技術之ADMAFINE專利製成,
將陶瓷粒子微細化成實心無孔質真球奈米微粒分子, 大小約0.5 μ m。
超高穩定性, 全反射遮熱原理, 塗漆面層不蓄熱、不傳熱。
同時具備光觸媒功效, 不會助長苔類及菌類生長,
耐污/抗污性強。



BONNTILE HONG KONG LTD
邦盛建材香港有限公司

Admatechs kikusui

Acquired patents in 4 countries and 2 regions in the world
世界4ヵ国2地域で特許を取得

真球状微粒子 [アドマファイン] の技術が、 様々な分野で注目されています。

アドマファイン。

それは、金属粉末を独自の手法で酸化させた真球状微粒子。

表面が無孔質のため含水量が少なく、粒子同士の凝集も少ないため分散性も良好。

さらに、粒度分布がシャープなため、配合コントロールも容易です。

こうした数々の優れた特長により、世界中から注目が集まるアドマファイン。

その活躍の場は、コンピュータ、電機、自動車、食品、医療へと広がり続けています。

The ADMAFINE technology is attracting attention from various industries.
“ADMAFINE”

You refer the the true spherical fine particles after acidifying the metal powder by your own method. Since the surface has no holes, the water content is low, and the amount between particles is small, so the dispersibility is good. Moreover, due to the sharp particle size distribution, the composition is also easy to determine. It has attracted worldwide attention with its many excellent features. Continue to expand into the fields of computers, appliances, automobiles, food, health care, etc.

Unique technical development creates a new miracle

ADMAFINE consists of microscopic spherical oxide particles produced by oxidizing metal powders using an original technique known as the VMC method. The moisture content is very low as the surface is non-porous, and dispersibility is excellent as there is no strong adhesion among the powders. Blending control is also easy due to the narrow particle size distribution. The product line of ADMAFINE includes our major products silica and alumina, and their secondary processing products. As for the secondary processing product is below.

- products with the surface reformed by coating the surface of the spherical particles with various compounds
- products uniformly and highly dispersed in an organic solvent or resin
- products with the particle size adjusted distribution by removing coarse particles and blending powders ... and so on

○ Basic characteristics of ADMAFINE

1.Spherical particles |

Spherical particles with a diameter of 0.2 to 10 μ m

2.High purity |

Achieved by high-purity raw materials and special techniques

3.Low surface area ratio |

Non-porous surface with little moisture content

4.Narrow particle size distribution |

Easy blending control due to narrow particle size distribution

5.High dispersibility |

Excellent dispersibility achieved because there is no strong adhesion among powders

Open up new world of advanced materials in new era

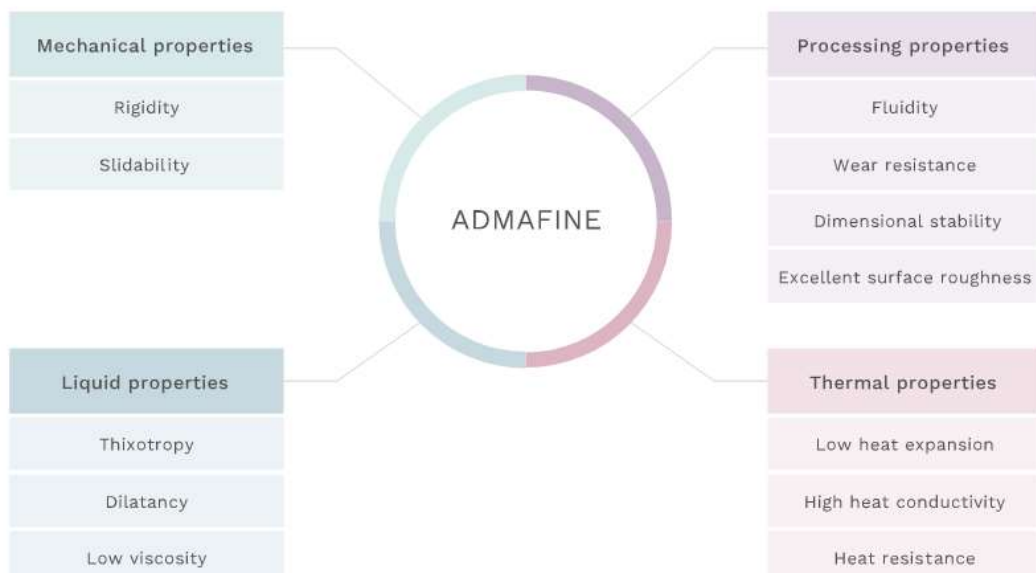
The applications of spherical particles are infinite.

The highly specific functionality of spherical particles is used in various fields, including computers, electrical and electronic products, automobiles, foods, and medical equipment.

Product examples include, adhesive that optimizes heat conductivity and heat resistance, liquid resin featuring high fluidity and rigidity, and functional paints where heat and weather resistance is required. Each of the ADMAFINE particles maximizes the function of these products and improves the characteristics of the product.

ADMAFINE is blended in leading edge materials in various fields, for example, sealant for super-thin semiconductors (e.g. MPU, memory), sealer and rib of flat display units (e.g. LCD, PDP), engineering plastic mainly for automobile parts, cosmetics and soaps (e.g. foundation) , wrapping film for foods and medical goods, and dental materials.

○ Basic functions of ADMAFINE



注目の真球状微粒子 [アDMAファイン] を活用した

アクリルシリコン系 高日射反射率塗料 [アDMAクールペイント]

Features

Demonstrates excellent heat shielding properties through the use of ADMAFINE

ADMACOOL PAINT is an acrylic silicone-based high solar reflectance paint that utilizes ADMAFINE. ADMAFINE, which has an extremely sharp particle size. They can be evenly arranged in the coating film, allowing more particles to be taken in. As a result, it efficiently reflects sunlight, especially wavelengths in the infrared region.

通過使用 ADMAFINE 表現出出色的隔熱性能 ADMACOOL PAINT 是一種使用 ADMAFINE 的丙烯酸有機矽基高太陽能反射率塗料。ADMAFINE 具有極其尖銳的粒徑。它們可以均勻地排列在塗膜中，讓更多的顆粒被吸收。因此，它可以有效地反射太陽光，尤其是紅外區域的波長。

Effect

CO2 is reduced by using it for roofs and outer walls

By using ADMACOOL VEINT on the roofs and outer walls of factory facilities, it is possible to control the temperature rise in the factory and reduce the power consumption used for air conditioning. This will lead to a contribution to the prevention of global warming.

通過將其用於屋頂和外牆來減少二氧化碳 通過在工廠設施的屋頂和外牆使用 ADMACOOL VEINT，可以控制工廠內的溫度上升，並減少用於空調的電力消耗。這將有助於防止全球變暖。

Versatility

It is possible to combine various specifications such as anticorrosion and soundproofing.

By combining various specifications with ADMACOOL PAINT, such as heat insulation in winter, anticorrosion and soundproofing, it is possible to add functions according to the situation and needs. It is also ideal for repairing state roofs that are over 30 years old.

可以組合各種規格，例如防腐和隔音。通過結合 ADMACOOL PAINT 的各種規格，如冬季隔熱、防腐、隔音，可根據情況和需要添加功能，也非常適合修復 30 年以上的狀態屋頂。

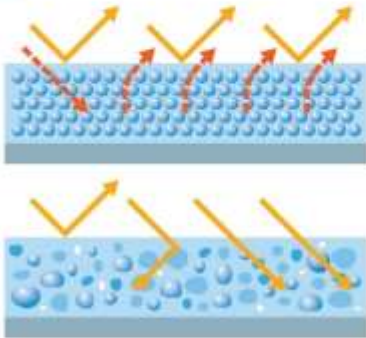
太陽光を効率良く反射するアクリルシリコン系高日射 その優れた特性が快適な環境を実現し、地球環境の

Acryl-silicon system that reflects sunlight efficiently and has high solar radiation

特長

ADMA COOL PAINT の製品特性與一般日照反射塗料有顯著的差異

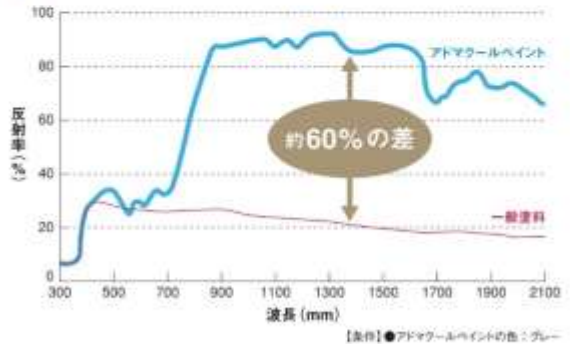
與一般高日照反射率塗料粒度分佈的差異



ADMA COOL PAINT
粒度分佈平均, 能有效地阻擋光, 熱和紫外線, 並有效地反射紅外線. 出色的散熱性也使熱能積聚減輕.

一般高日照反射塗料
大小不一的顆粒狀, 導致大部份的光, 熱都能穿透過去, 因此容易引起熱能積聚.

與一般塗料日照反射率比較

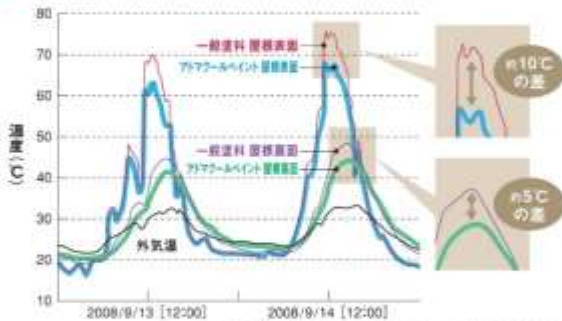


粒子取決於大小和形狀, 具有散射光的特性. 與顆粒大小不一的一般高日照反射率塗料相比, ADMA COOL PAINT是由含有有效地反射近紅外線的大小及形狀, 且粒度布極其尖銳的真球狀微粒子(ADMAFINE)所調配而成. 塗料本身能隔熱以外, 真球狀微粒子更能再次阻隔熱能. 由於具有其特性, 能阻隔大部份的光及紫外線, 並且有效地反射近紅外線. 此外, 能有效地排放僅有的熱能, 因此幾乎沒有熱能積聚的情形發生, 甚至對於抑制熱島效應也能發揮作用.

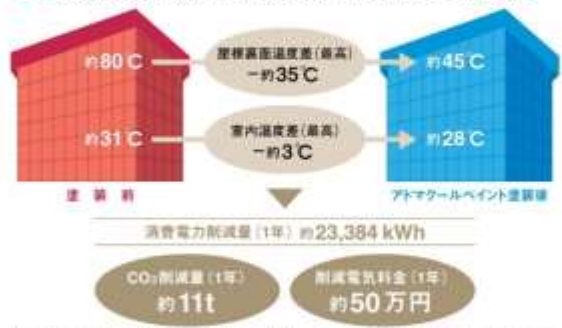
効 果

透過各項實驗證明ADMA COOL PAINT的力量

● 一般塗料との遮熱性能の比較



● 塗装前後の施設温度の比較と省エネ効果



透過將ADMA COOL PAINT塗裝於工廠設施等的屋頂, 能大幅度降低屋頂表面及背面的海度. 由此可見, 可降低必要的室內冷氣用電量, 進而減少二氧化碳排放量及電費.

反射率塗料 [アドマクールペイント]。 保全にも貢献します。



051-0856 / 051-0857 / 051-0858

URL <http://www.env.go.jp/policy/etv/>
※本技術及びその性能に関して、環境省等による保証・保証・認可等を行うものではありません。

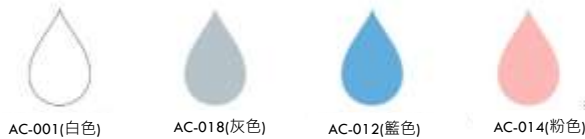
Reflective paint [Adma Cool Paint].

多機能性

擴展ADMA COO PAINT至客領域的可能性

顏色

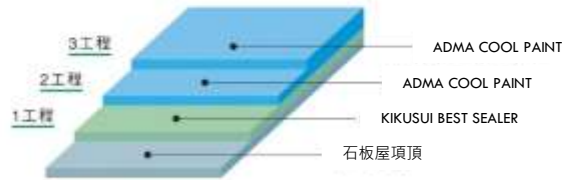
除了右記的標準顏色外,也能依照客戶需求進行調色,歡迎根據你的用途向我們諮詢。



基本施工式樣

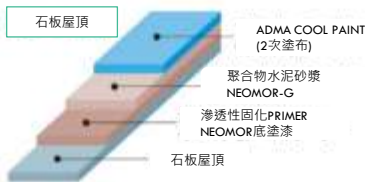
ADMA COOL PAINT 僅需3工序即可完工,實現施工經費節約及工期縮短的目的

聚合物水泥砂漿
NEOMOR-G



其它施工案列

通過將ADMACOOL PAINT 與其它塗料相結合,可以為塗料添加各種功能

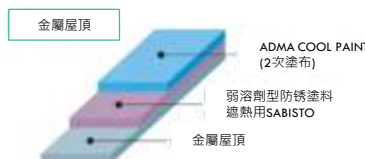


石板屋頂整修工法

減少CO₂, VOC

減少空調用電量

防水, 隔音, 長期耐久性

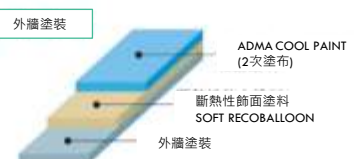


壽命延長化

減少CO₂, VOC

減少空調用電量

長期耐久性



隔音, 斷熱, 長期耐久性

減少CO₂, VOC

減少空調用電量

斷熱, 長期耐久性



開始被廣泛地利用於各熟悉的場所

從工廠設施為首, 各種店面, 一般住宅, 甚至到公車, 電車及貨櫃船, ADMA COOL PAINT活躍於各式各樣的場面. 憑藉其卓越的特性, 為節能和地球環境保護做出了貢獻.

