



Global environment-friendly heat-shield coating

# /Idgreencoat®GP series

/Idgreencoat®

## **Global environment-friendly heat-shield coating**

# /Idgreencoat®GP

省エネルギー技術の提供で地球環境に貢献します。

Contributing to the global environment through furnishing energy-saving technology



## 環境対策 Eco-Friendly

水系でVOC成分及び臭気が少なく、環境にやさしい塗料です。 シンガポール・エコプロダクツで、継続的に環境貢献する塗料として、 シルバーアワード賞受賞しました。

Adgreencoat is the "water-based plus eco-friendly (less VOC / stink)" paint. We won the silver award of "the sustainable eco-friendly paint" at the Eco Products 2006 in Singapore.



## 節電対策 Saving Energy

特殊セラミックスの機能性(wブラインド効果)で絶大な遮熱効果を発揮します。 過分な空調負荷を削減し、即効性ある節電が可能です。

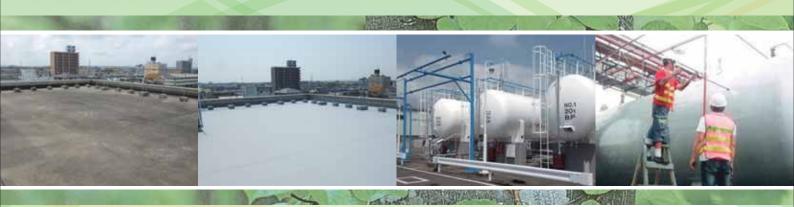
It has superb heat shield effect with the distinctive functionality of special ceramic materials. It is possible to reduce the excessive airconditioning load and power saving with immediate effect.



## 躯体保護 Substrate Protection

<mark>熱劣化を低減し、</mark>躯体保護に大きく寄与します。 平滑性ある塗膜は薄膜で防汚力に優れ、長期に渡り遮熱効果を発揮します。

Thin and smooth surface and keep beautiful appearance the heat shield effect will remain longer by reducing the thermal degradation.

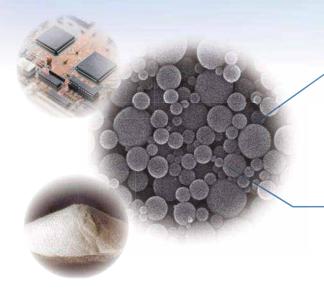


高品質·高機能生(国際特許製品)

High quality / functionality(International patent product)

# Mechanism

Cool down at the Nano-ceramics combination



## 太陽光・反射・・ナノセラミックの機能性 Solar Light Reflection: Nano-ceramics functionality

 $0.2 \sim 0.6 \mu m$ のナノサイズが近赤外線の波長と同調し、電磁波散乱による高反射で温度上昇を抑制します。

From 0.2 to 0.6  $\mu$ m nano-size ceramics are syntonic with the wavelength of near-infrared, and reduce temperature of substrate by electromagnetic wave scattering.

太陽熱・放射・・特殊形状による機能性 Solar Heat Release: Specific shaped functionality

アモルファス形状により「高熱伝導」で瞬時に熱を排熱し「熱だまり」を解消します。 The amorphous shaped ceramics has high thermal conductivity, which is effectively release heat and reduce the heat bank.

## 優位性

## The strength and superiority

優れた施工性

∕ldgreencoat

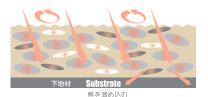
#### **Excellence in constructing work.**

薄膜で施工性に優れ、短納期で遮熱対策が可能です。 It will be possible;

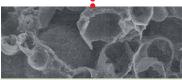
- 1) Thin coating and perfect effect,
- 2) Short period delivery with heat measurement.

## 美しい仕上がり **Beautiful coating surface.**

平滑性ある塗膜は美観性・防汚力に優れています。 Very smooth coating film makes beautiful appearance and great for anti-dirt.



Stockpiling Heat



中空パルーンセラミック Hollow balloon ceramics



厚いコーティング + ざらつき Thick coating and rough surface



躯体により即時に温度の低い外部に排熱 Reflect and release heat to where the heat from.



Special ceramics



薄い+ 滑らかな表面 Thin and smooth surface



様々な所に塗装されています。 Contributes at various place for heat shielding.



## **Factory**

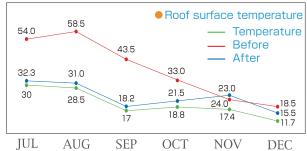
Place: Okayama in Japan, house maker factory Measurement period in Japan: From July,

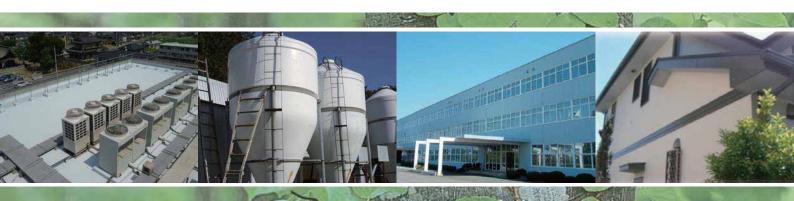
2012 to December

Roof: Galvalume (27,000 square meters)



Result	Roof surface temperature	Inside temperature
Temperature	28.5℃	28.6℃
Before	58.5℃	37.5℃
After	31.0℃	33.5℃
Difference	<b>▲</b> 27.5℃	<b>▲</b> 4.0℃





# School

体育館室内温度を5℃抑制

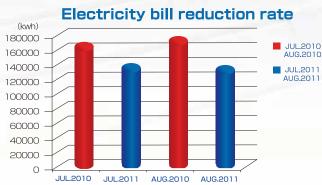
5 degrees temperature restraint for inside of school gymnasium

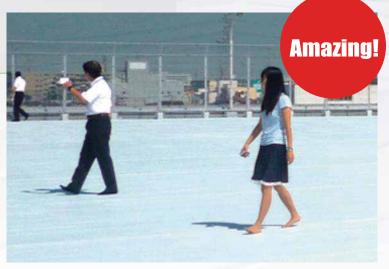


# Energy 30%0FF

## Supermarket







## It is comfortable on bare feet.

Place: Saitama in Japan. : Supermarket Measurement period in Japan: From 11-July, 2011 (11:00am) Roof: Galvalume (2,000 square meters)

## Warehouse

Place: Jakarta, Warehouse

Roof Material: Zinc Aluminium Roof: Galvalume (307square meters)

## Conclusion

Adgreencoat is proven to reduce the surface's temperature of the roof.





**Before Coating** 

After Coating

Condition	Before	After	Difference
Roof Temperature	79.0℃	52.5℃	<b>▲</b> 26.5℃

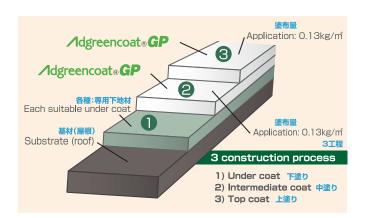
<sup>•</sup> Data taken from the highest temperature recorded from each charts.



## Product information for more information visit:

## http://www.nck-gp.com

"Stay cool, save energy"



## **∕**Idgreencoat®**GP**

## Recommended use

Final coating materials for roof, walls. Steel, Galvalume iron, etc. Concrete, Mortar, Roofing slate, ALC, etc.

Apply substrate materials depending on the kind of a roof and the wall, and, please use it as finalcoating materials.

FEATURES	WALL TO ALL
<ul> <li>Excellent Highly Reflective Heat Shield Paint.</li> <li>Quick dry.</li> <li>Good adhension property.</li> <li>Low odour.</li> <li>Excellent Workability.</li> <li>Good alkaline resistance.</li> </ul>	Adgreencoats GP-009 GRANGE MACE LANGUAGE LANGUAG

Contens	∕Idgreencoat® <b>GP</b>	ACLOSE	A Miyabi
内容	 Top coat 主 材	Under coat 下地材	 Under coat 下地材
Type 種 類	Water-based 水 系	Water-based 水 系	Solvent 溶 剤
Packing 荷 姿	13kg/can(10 <b>@</b> )	13kg/can(10 <b>@</b> )	13kg/can(9.4 <b>2</b> )
Mixing ratio 混合比	One solution 1 液	One solution 1 液	4:1 Base Har dner
Application Condition 塗布量	0.13kg / <b>m</b> ੈ/coat (10 <b>m</b> ੈ/ <b>2</b> /coat)	0.10kg / <b>m</b> ੈ/coat (13 <b>m</b> ੈ/ <b>2</b> /coat)	0.13kg / <b>m</b> /coat (10.6 <b>m</b> / <b>2</b> /coat)
Recommended DFT 推奨膜厚(ドライ)	40μm/coat	30μm/coat	50 <b>~</b> 70μm/coat
Application method 塗装方法	$\frac{\text{Brush, Roller}}{0 \sim 5\%} \; \frac{\text{Spray}}{5 \sim 10\%}$	Brush, Roller   Spray   10~20%	Airless Spray 3~10(wt.%)
Dilution ratio 希釈率	(Drinking water)	(Drinking water)	(Miyabi Thinner B)
Coating Interval 塗装間隔	Temperature 20°C  Minimum 2h  Maximum 7days	Temperature 20° <b>C</b> Minimum 2h Maximum 7days	Temperature 20°C  Minimum 24h  Maximum 7days
Drying Time 乾燥時間	Temperature 20°C Surface Dry 1h Hard Dry 2h	Temperature 20°C Surface Dry 30min Hard Dry 2h	Temperature 20°C  Surface Dry 2h  Hard Dry 12h

## Nonmetal

## ACLOSE Sealer for ✓dgreencoat®GP

#### Recommended use

External and internal new concrete, mortar. Cement render, brickwork, hard and soft board, Plaster, ceiling and slate tile etc.

#### Metal

## Miyabi Primer for ✓dgreencoat®GP

#### Recommended use

Anti-corrosive and tank lining primer in severe corrosive environments found in petrochemical, gas, power, fertilizer plants as well as refineries, tank, bridges and marine constructions.

- ・標準塗布量の数値は使用量の標準値です。個々の条件によって異なる場合があります。 The Value of the standard application amount is the standard value of usage. It may vary depending on the conditions of the individual.
- ・下地材は各種素地に合わせた専用下地材をご使用下さい。 Please use the dedicated under coat to suit a variety of each substrate material.
- ・塗料の取扱いについての一般的な注意事項は「取扱い説明書」及びSDS「安全データシート」を参照下さい。 Please refer to the "Instruction Manual" and "Safety Data Sheet (SDS)" for the general guidelines for the paint handling.







GP-008 ローズホワイト Rose white



GP-009 ホワイト White



**GP-100** パールグレー Pearl gray



**GP-200** アイボリー Ivory



**GP-201** クリーム Cream



GP-300 ミントグリーン Mint green



**GP-305** アップルグリーン Apple green



GP-400 スカイブルー Sky blue



**GP-500** ブラウン Brown



GP-600 □ーズ Bose

- \*この色見本は印刷インキの都合上、実際の仕上がりとは異なります。
- \*他の色はお問い合わせ下さい。
- \*These colourings are different from the real finish on account of the printing ink.
- \*Please inquire for other colors.

Let's think about what we can do for future children.

未来の子供たちの為に、 我々ができることを



## 総合評価NO.1

## **Overall Evaluation: No.1**

## 機能性·環境生 Functionality and Environmental Measures

世界最高峰の特殊ナノセラミックを用いて開発されたアドグリーンコートは、 公的機関に於いても高い機能性が実証されており、環境塗料として様々な実証・認定を受けています。

Developed using the world's best special nano-ceramics, Adgreencoat has demonstrated high-functionality even in the public sector and has been proven and certified as an environmental paint by various institutions.

#### 美観性·耐久性 Aesthetics and Durability

厚塗り塗料からの脱却。平滑性ある美しい仕上がりは美観・防汚力・耐久性に優れています。

Break away from thick coating. The beautiful finish is aesthetically beautiful, has antifouling properties and durability.

### 価格の優位性 Price Advantage

材料使用量を他社比較1/2以下、施工性の良さでハイコストパォーマンスを実現!

Compared to other companies, the material usage is less than half, realising a high-cost performance with excellent workability.













### ■アドグリーンコート®の海外戦略 Overseas sales network of the /ldgreencoat®



Singapore / NCK GLOBAL PAINT PTE LTD. < http://www.nck-gp.com > 20 Collyer Quay #23-01 Singapore 049319

• J

Japan / Nihon Chuo Kenkyujo Co.,Ltd. < http://www.nck-inc.com > NCK Sales Co.,Ltd. < http://www.nck-sales.co.jp> Shigma Bldg.3-7-12, Shibaura Minatoku, TOkyo 108-0023, Japan

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China / Adgreen (CHANGSHU) CO.,LTD. < http://adgreen.com.cn/ > Rm1904 Bldg. 1 Tongji Science and Technology Square, No.333 Hushun Road, Changshu Southeast Economic Development Zone of Jiangsu, Changshu, Jiangsu 215500 CHINA