

Adgreencoat[®]

Stay Cool, Save Energy



For more information
visit our website
nckgulf.com

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Adgreencoat is a globally patented coating system that saves energy costs and simultaneously works eco-friendly by reducing CO2 output.

Beat the heat and protect your facility with Adgreencoat – a heat reflective coating, based on Nano technology. Which allows you to save energy costs, reduce carbon footprint and contributes to a healthier environment.

Our Vision

We like ourselves to be the answer for global warming by reducing the carbon emission of all known sources. Our product helps to reduce the carbon footprint and make the world a better place for the generations to follow.

Our Mission

NCK Gulf wants to have a significant contribution in making the Middle East the most sustainable region in the world by the year 2020. We like to attain this by educating the merits of the innovative coating technology thereby achieving greater profitability and on the same time contribute to a better environment.

Our Value Proposition

With Adgreencoat's 97% reflectivity, it prevents thermal storage in your outer coating layer. This drastically improves the indoor environment and provides countless benefits, such as a significant reduction of your energy costs.



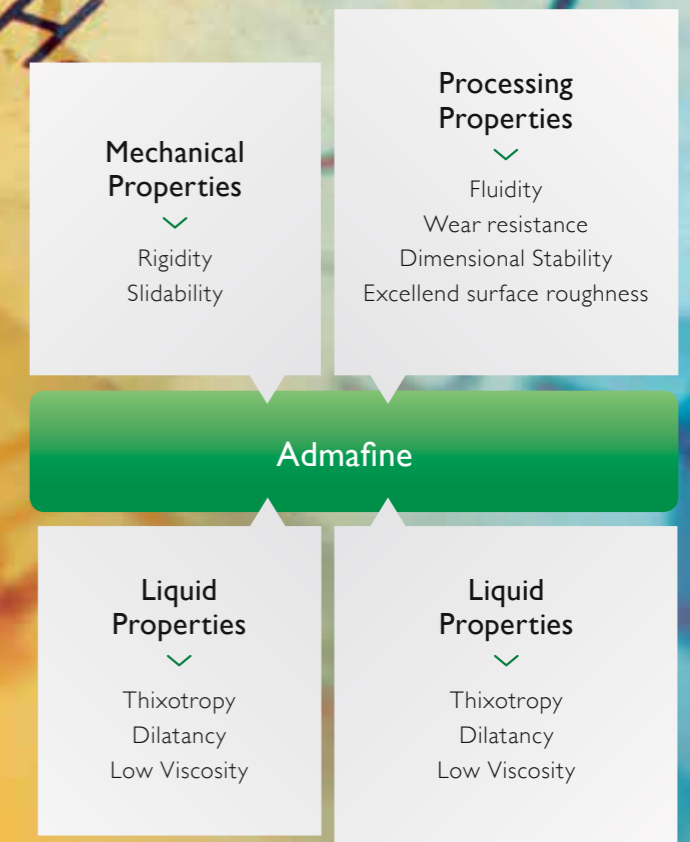
In 1990 Toyota Motor Corporation and Shin-Etsu Chemical Corporation Limited founded a JV company, Admatechs.

Admatechs developed the world's first spherical inorganic fine ceramic, Admafine. Admafine is the unique and patented ingredient in Adgreencoat.

Admafine is a nonporous ceramics with 0.2 to 2.0 μ -sized spherical ultra – fine particles which has many functions such as high heat conductivity, low thermal expansion, and enhanced heat resistance. It is also used worldwide to eliminate heat accumulation in precision apparatus, electronic devices and semi-conductors.



> Admafine characteristics



SKI DUBAI

📉 Reduction load in °C	> 3 - 7 °C
⚡ KWH reduction	> 594504 Kwh/year
🌳 CO2 emission reduction	> 301568 Kg/year
📅 Return on investment	> 1 years and 6 months

For more information about this case studie visit our website nckgulf.com/case-studies/

Adgreencoat®

Before AGC

58,6 °C

After AGC

36,2 °C

Roof surface temperature

“ We will be painting the exterior of Ski Dubai to bring it up to a standard that is worthy of our facility and at the same time introduce a special UV/heat reflecting paint to reduce energy usage ”

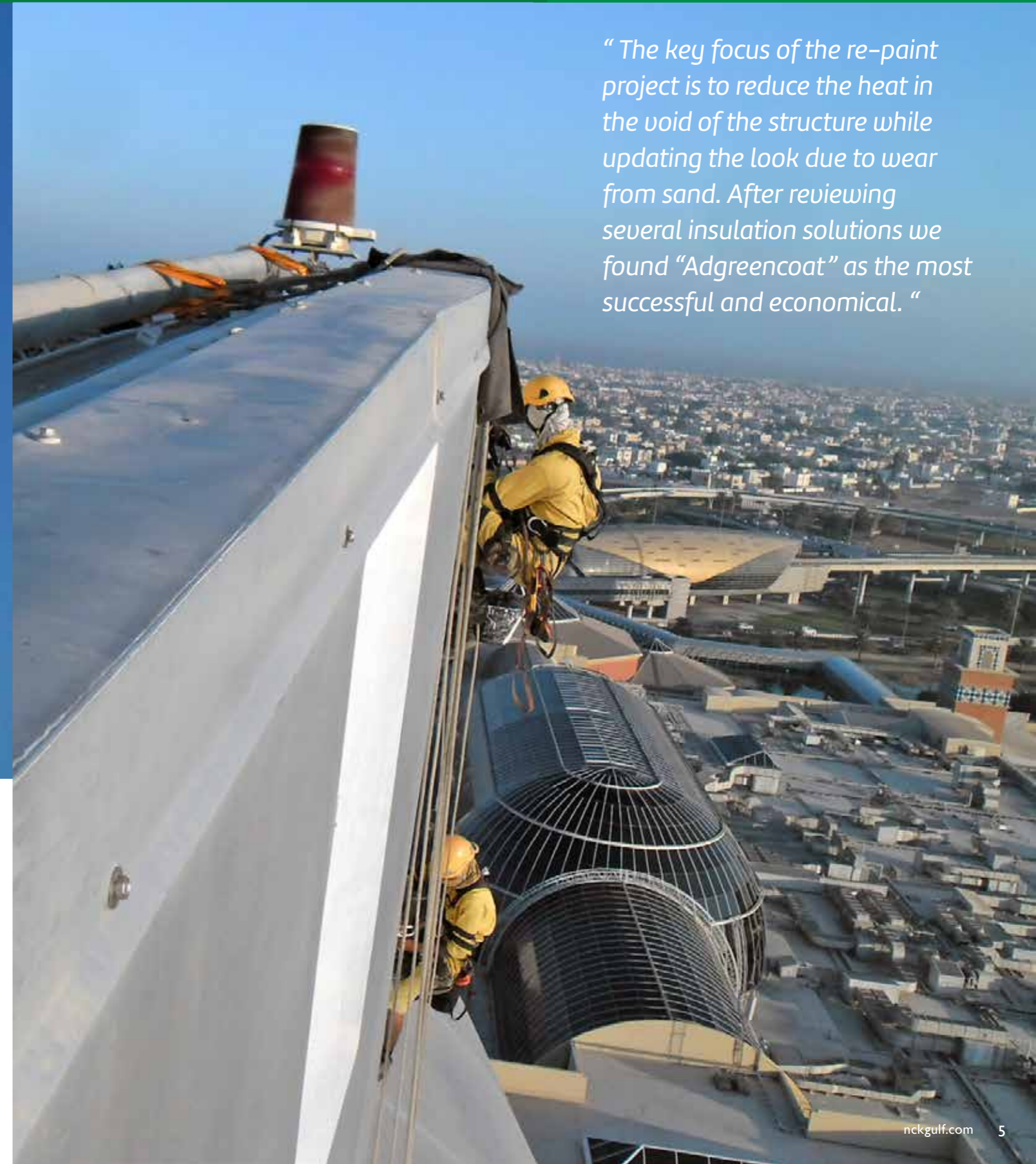
“ The key focus of the re-paint project is to reduce the heat in the void of the structure while updating the look due to wear from sand. After reviewing several insulation solutions we found “Adgreencoat” as the most successful and economical. ”

Our top pick, first place for indoor skiing is Ski Dubai, located in Dubai, United Arab Emirates. It's the largest indoor ski park in the world, located within a lavish mall.

Outside temperatures in Dubai range from 40 to 50°C. The inside temperature of the skipark is set at -4 °C. What better place than to apply Adgreencoat? With these big differences in in- and outside

temperatures Ski Dubai has one main objective; reducing energy consumption and therefore reducing cooling costs.

As the structure of Ski-Dubai, the radiant heat between roofs, outside roof and inside ceiling, is about 50°C and the inside of the ski area is set as -4°C. The application of Adgreencoat will reduce energy consumption and cooling costs significantly



DHL DANZAS AIR & OCEAN

📉 Reduction load in °C	> 2.6 °C
⚡ KWH reduction	> 173 140 Kwh/year
🌳 CO2 emission reduction	> 87678 Kg/year
📅 Return on investment	> 2 years and 6 months

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Adgreencoat®

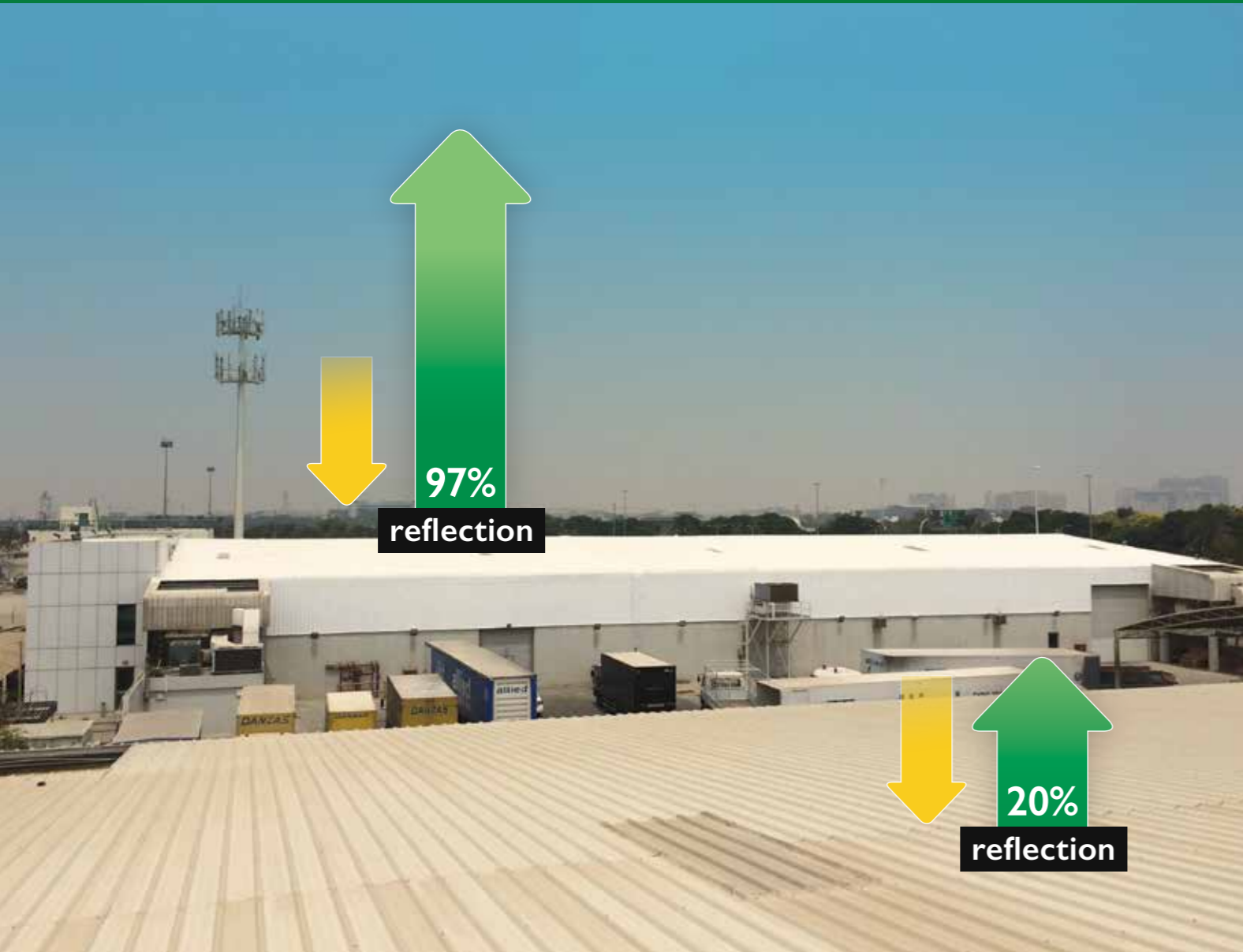
Before AGC

60,0°C

After AGC

40,4°C

Roof surface temperature



“ We chose Adgreencoat for our facility due to the unique nano technology which allows us to save energy costs, reduce carbon footprint and contributes to a healthier environment “

Danzas is a joint venture between the Al Tayer Group and Danzas AEI (DHL), the world's largest freight forwarding and logistics company.

Established in 1989 and based in the Middle East's freight exchanging hub, Dubai, the operation provides today a one-source responsibility for the diverse transportation and logistics needs of a continually growing list of customers

As spelled out in the DHL group strategy for 2015 "Living Responsibility", Go Green is one of the main goals. A key element in achieving this goal is bringing down the carbon emissions of the Danzas buildings. All the major assets are temperature controlled so that customers are sure the quality of their goods is guaranteed and our workers have the best ergonomics in their working environment. With the extreme hot climate in Dubai

Adgreencoat will significantly contribute to the reduction of carbon emissions and bringing down cooling costs.



JUMEIRAH

📉 Reduction load in °C	> 3,4 °C
⚡ KWH reduction	> 12272 Kwh/year
🌳 CO2 emission reduction	> 6214 Kg/year
📅 Return on investment	> 2 years and 3 months

For more information about this case studie visit our website nckgulf.com/case-studies/

Adgreencoat®

Before AGC

63,4°C

After AGC

33,9°C

Roof surface temperature



Jumeirah has a clear vision to become the industry leader, our ability to create value for our stakeholders is crucial for the sustainable growth of our company. We can only achieve this by earning the support and respect of our colleagues, our customers, our business owners and partners, our suppliers and our communities at large.

We have also focused on our carbon footprint and are looking at ways to measure the environmental impact of our operations. In this way we can specify an increasingly ecological approach to the building of new hotels and resorts whenever we talk to owners and investors. At Jumeirah Oasis village the installation of a 'cool roof' with Adgreencoat is completed., this is the first step in the

group to make Jumeirah buildings more energy efficient with this kind of solutions. The results show this will help contribute in bringing down the carbon footprint.



“ Adgreencoat has after extensive testing proven us that this will bring us more than 20% reduction on our AC consumption, after installing a cool roof with Adgreencoat ”

> Characteristics



Safe & Smart

Adgreencoat prides itself to be non-toxic and non-hazardous – for both the environment and for whoever applies it. It's also very easy to apply and due to the even distribution of particles, the product works very efficiently.



Economic benefits

Using Adgreencoat, you will drastically reduce your energy consumption and simultaneously save up to 40% on your electricity costs. All of this and no compromise on the quality.



Energy Saving

With no less than 97% reflectivity Adgreencoat is the best reflective coating available on the market. Due to the unique heat releasing effect the internal temperature is reduced substantially. Consequently air-conditioners can operate at lower levels, saving energy costs.



Green & Eco Marks

Adgreencoat's unique environmental friendly features have not gone unnoticed: we received several green marks and eco marks: Japanese Industrial Standard (JIS) and the prestigious Eco Award 2006, among others.



Eco Friendly

We take our environmental responsibility very seriously. Therefore, when developing Adgreencoat, we made sure it is inorganic, water-soluble, non-hazardous and non-toxic.



Durable

Admagine the active ingredient in Adgreencoat has a unique and uniform shape & size. This gives a smooth outer surface resulting in zero waterlog ensuring longer life for the coating.

> Applications



Buildings

Whether you're in a residential or commercial building, Adgreencoat can be applied to the roof and walls of any building. This will improve the inside climate and significantly reduce air conditioning costs.



Agricultural

Farms, Processing plants & Stables have the same benefits of reduced cooling costs and lower carbon emission as other industries, also the health and productivity of livestock will increase due to the better inside environment.



Storage facilities

Adgreencoat is the perfect product for any storage facility. It will reflect the outside heat, reduce the surface and inside temperature and safely protect your fragile products, such as perishable and flammable goods. Also it will reduce condensation of vaporised and liquidized oil and gas products.



Transportation

Transit can be tricky with outside temperatures constantly shifting. Apply Adgreencoat to your (reefer) containers or trucks and this will reduce the cost of cooling significantly while getting your goods from A to B. Also beneficial in public transport to increase the comfort of travellers.



Piping

Apply Adgreencoat to pipelines to keep the liquids or gases which you transport cool, by reflecting the heat from the outside of the pipes.



Telecommunication

Adgreencoat will give great benefits when applied on the control stations of the transmission towers, saving energy and extend the lifetime of electrical components.

> Technical Data Sheet

✓ Colour	> There are 10 colours available, see colour table.
✓ Volume solids	> 52 + 2%
✓ VOC content	> 26 g/L EU Solvent Emissions Directive (council Directive 1999/13/EC)
✓ TVOC content	> 0.07 mg/ M2*Hr EU Solvent Emissions Directive (council Directive 1999/13/EC)
✓ Volume Specific gravity	> 1.3 ~ 1.4
✓ Thickness	> 40-50 microns per layer, 2 layers required
✓ Theoretical Coverage	> 15 m2/litre – 40 micron per layer

> Adgreencoat colour table

GP σ -008 Rose white (Rose Whit)	GP σ -009 White (White)	GP σ -100 Pearl grey (Pearl gray)	GP σ -200 Ivory (Ivory)	GP σ -201 Cream (Cream)
GP σ -300 Mint green (Mint green)	GP σ -305 Apple green (Apple green)	GP σ -400 Sky blue (Sky blue)	GP σ -500 Brown (Brown)	GP σ -600 Rose (Rose)

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> Greenmarks

