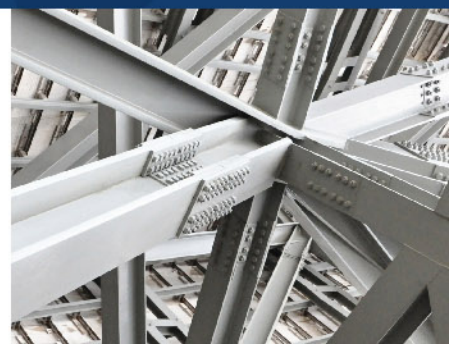




NATIONAL[®]
PAINTS



POWDER COATING

CERTIFICATE

for a POWDER MANUFACTURER



hereby authorises

National Paints Factories Co (UAE)
P.O. Box 5822
Sharjah
United Arab Emirates

to use the quality label in conformity with the
16th Edition of the QUALICOAT Specifications valid from 1 July 2014

Material:	Powder Coating
System name:	PS 2008 Series
Gloss category:	3
Class:	2
Structured finish:	No structured finish
Metallic extension:	No
Banned colour(s):	-
Suspended colour(s):	-
Approval type:	standard approval
P-No.:	P-1526
QUALIDECO Powder on Powder:	No

Date of granting:

Valid until:

Zurich, 1 January 2014

QUALICOAT

M. C. Panam

Mohammed C. Panam
President

Sue C. C. Paredi
Managing Director

QUALICOAT | Tödtstrasse 48, 8002 Zurich, Switzerland | www.qualicoat.net



ISO 9001 & 14001
OHSAS 18001
CERTIFIED FACTORY



COMPANY PROFILES



National Paints is a leading paints and coating manufacturing company in the Middle East region. The company owns seven powder production plants worldwide in six different countries. In addition to the presence in these countries **National Paint** export globally to several other countries.

National Powder Coating segment has done numerous achievements in recent years. That includes starting of new manufacturing units, capacity upgradations, and introduction of new technologies such as NextGen functional coatings for pipe and rebar coatings, similarly standard durable and super durable architectural powders for aluminium industry backed with **Qualicoat** certifications of **Class-1** and **Class-2**.

National Paint's powder business increasing rapidly, leading us to transform the structure of our manufacturing capabilities. It includes setting up of new site for FBE manufacturing in Abu Dhabi along with starting operation of powder manufacturing in KSA and Oman compliance with high quality standards.

At **National Powder Coating**, we are use state of the art machinery with latest technologies. Highly experienced, dedicated, and hardworking R&D professionals is a key of our success. These new advancements in **National Powder Coating** technology have enabled the availabilities of improved range of powder coating materials to fulfill the market requirements. The new technologies have increased the product portfolio to compete in the region. Very soon, **National Paints** targeting to be recognized globally as a leading and sustainable manufacturer of powder coatings products.

POLYESTER ARCHITECTURAL PA1000 SERIES POWDER COATING



National PA1000 Series is an architectural powder coating recommended for exterior application offers excellent gloss retention and resistance to color change properties. **PA1000 Series** is available in a variety of colors as per RAL card, custom made shades in glossy, semi-gloss, and matt finishes.

NP PA1000 Series is available in following categories.

PA1008 (PAFG Glossy)	-	90 (+/-) 10
PA1007 (PASG Semi-glossy)	-	77 (+/-) 7
PA1003 (PASM Matt Finish)	-	30 (+/-) 5
PA1001 (PAFT Sandy Finish)	-	10 (+/-) 5
PA1000 (PADM Dead Matt)	-	5 (+/-) 3



Key Features:

- National PA Series is designed for architectural coatings.
- PA Series meets Qualicoat Class-1 requirement with Cat 1, 2 and 3 approvals.
- It is backed with 10 years product warranty for exterior durability (terms and conditions).
- PA Series offers excellent UV resistance for exterior application and good heat resistance.
- Excellent adhesion, humidity resistance and water immersion resistance.
- Outstanding corrosion protection and UV durability.
- Environmentally friendly.

Powder Characteristic:

Chemistry	Polyester Architectural
Particle size	Suitable for electrostatic spraying
Specific gravity	1.20 - 1.60
Curing schedule	200°C / 10Min and 190°C / 15 Min (metal temp.)

POLYESTER SUPER DURABLE PS2000 SERIES POWDER COATING



National PS2000 Series is an architectural super durable powder coating that ensure outstanding weathering performance and excellent resistance to the damaging effects of UV light. It is developed to satisfy the requirements of exterior durability with attractive decorative finishes combined with optimum protective properties. **PS2000 Series** offer excellent gloss retention and resistance to color change properties. **PS2000 Series** is available in selected RAL colors, other colors can be available upon technical assessment.

NP PS2000 Series is available in following categories.

PS2008 (Glossy Finish)	-	85 (+/-) 10
PS2006 (Semi-glossy)	-	65 (+/-) 7
PS2003 (Matt Finish)	-	35 (+/-) 7



Key Features:

- National PS Series is super durable powder coating.
- PS Series meets Qualicoat Class-2 requirement with Cat 1, 2 and 3 approvals.
- It is backed with 25 years product warranty for exterior durability (terms and conditions).
- PS Series offers outstanding weathering resistance and excellent UV protection.
- Excellent adhesion, humidity resistance and water immersion resistance.
- Outstanding corrosion protection.
- Environmentally friendly.

Powder Characteristic:

Chemistry	Polyester Super Durable
Particle size	Suitable for electrostatic spraying
Specific gravity	1.20 - 1.60
Curing schedule	200 °C / 10 Min and 195 °C / 15 Min (metal temp.)

ZINCOPRIM POWDER COATING



National Zincoprime is a thermosetting powder coating based on specially selected epoxy resins and cross linking agents providing excellent functional properties. **Zincoprime** is epoxy-based zinc rich powder coating designed to be used as a primer coat on phosphated or blast-cleaned steel objects and structures.

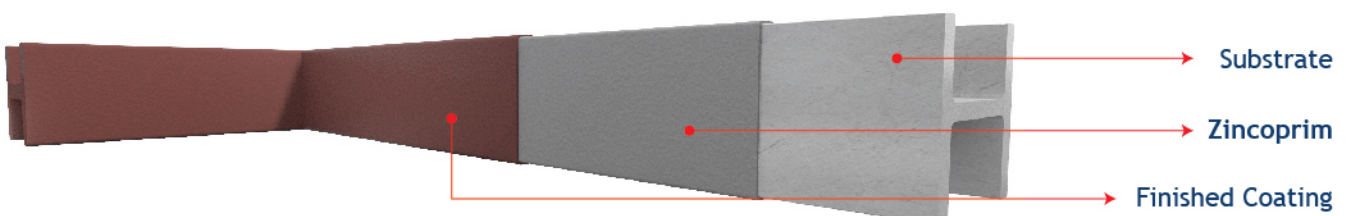
Zincoprime provides excellent resistance to corrosion, outstanding mechanical properties and inter-coat adhesion, and very good degassing properties along with excellent edge coverage and flow. Suitable top coat products are **NP MX Series** for interior applications, and **NP PA1000 and PS2000 Series** for exterior durable applications.

Key Features:

- Zincoprime designed as primer to give optimum adhesion to steel surface and good intercoat adhesion.
- Excellent corrosion protection and chemical resistance.
- High mechanical performance.

Powder Characteristic:

Chemistry	Epoxy
Particle size	Suitable for electrostatic spraying
Specific gravity	3.10 +/- 0.1
Curing schedule	200 °C / 6 Min and 180 °C / 10 Min (metal temp.)



ANTIMICROBIAL POWDER COATING



National Antimicrobial Powder Coating is a thermosetting powder coating based on silver ion antimicrobial technology to produce a hygienic coating system. The coatings based on this technology provide the required decorative effect as well as chemical and physical properties. It provides extra level of protection against microbial growth on the surface of coated parts.

National Antimicrobial Powders are available in a variety of colors as per RAL card, custom made shades in glossy, semi-gloss, and matt finishes.

It's available in a variety of technologies, such as: pure epoxy, hybrid, pure polyester architectural and super durables, and ultra low bake powders.

Application Area

National Antimicrobial Powder Coating is designed to be used on objects where there is a requirement to maintain a low level of microbes, such as food preparation areas and catering items, medical related items, instruments tray, light fixtures, cabinets, beds etc. Similarly in the areas having more daily usage such as door handles, lockers/changing room, shopping cart, public transport, school, park/playground items, child care facilities and playing area etc.

Powder Characteristic:

Chemistry	Available for indoor and outdoor coating
Particle size	Suitable for electrostatic spraying
Specific gravity	1.20 - 1.70
Curing schedule	200 °C / 10 Min and 190 °C / 15 Min (metal temp.)

PE SERIES

POWDER COATING



National PE Series is a thermosetting pure polyester powder coating. It is developed to satisfy the requirements of outdoor durability with attractive decorative finishes combined with optimum protective properties.

National PE series offer excellent gloss retention and resistance to color change properties. **National PE Powders** are available in a variety of colors as per RAL card, custom made shades in glossy, semi glossy, and matt finishes. Other patterns like sand finish, texture, wrinkle, hammer tone and metallic finishes are also available.

Key Features:

- National PE Series is designed for exterior application.
- Offering excellent outdoor durability on a variety of substrates.
- PE Series is available in a wide range of colors with different texture and gloss levels.
- PE Series offers excellent UV resistance for exterior application and good heat resistance.
- Excellent adhesion, humidity resistance and water immersion resistance.
- Outstanding corrosion protection and UV durability.
- Environmentally friendly.

Powder Characteristic:

Chemistry	Pure Polyester
Particle size	Suitable for electrostatic spraying
Specific gravity	1.20 - 1.80
Curing schedule	200°C / 10 Min and 190°C / 15 Min (metal temp.)

MX SERIES

POWDER COATING



National MX Series is an epoxy polyester hybrid powder coating system. This special polymeric combination provides decorative and protective coating with excellent over bake resistance.

National MX Series Powders are available in a variety of colors as per RAL card, custom made shades in glossy, semi glossy and matt finishes. Other patterns like sand texture, coarse texture, hammer tone and metallic finishes are also available.

Key Features:

- National MX Series designed for interior use.
- MX Series offering full range of colours with different gloss levels.
- MX Series available with fine and heavy texture patterns.
- Different colors and surface finishes can be custom matched as per customer requirements.
- Good chemical resistance and mechanical performance.
- MX Series offer improved heat stability compared to pure epoxy powder coating.

Powder Characteristic:

Chemistry	Epoxy-Polyester
Particle size	Suitable for electrostatic spraying
Specific gravity	1.20 - 1.80
Curing schedule	200°C / 10 Min and 180°C / 12 Min (metal temp.)

ULB SERIES

POWDER COATING



National ULB Series is an ultra low bake powder coating system. **NP ULB Series** has been designed for use as powder coating finish on MDF. The product provides an alternative to the liquid coatings, paper foils and vinyl laminates currently used for MDF. It is reclaimable, safe and environmentally friendly. **NP ULB Series** can also be used on other heat sensitive substrates using a traditional thermal curing method.

Key Features:

- Available in full range of colors in soft fine sand texture as well as rough texture pattern.
- Environmentally friendly coatings comparing with conventional liquid paints and varnishes.
- One coat application process similar to conventional powder application systems.
- Less sanding required for MDF products comparing with normal paints and varnishes.
- Significant energy, time and space savings.
- Low temperature cure permits wide range of substrates to be powder coated.

Substrate

Substrate	: 18 mm Medium Density Fibre board
Density	: >750 gm/cm ³
Moisture	: 8-10 %
Pre-heating	: 2 - 3 minutes at 130°C
Curing schedule	: 20 - 30 minutes at 130°C
Film Thickness	: 60-80µm

Preparation : Main side requires very less surface preparation. Edges should be sanded or treated to minimize the out gassing and pin holing. Normally grit paper is recommended to get the typical smooth surface.

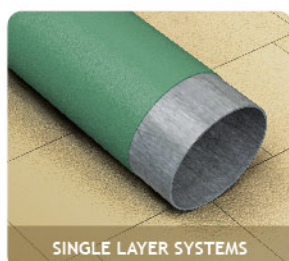
Powder Properties

Chemical type	Epoxy/Polyester
Particle size	Suitable for electrostatic spray
Specific gravity	1.2-1.7 g/cm ³ depending on color
Storage	Dry cool conditions below 30°C
Shelf life	6 months

FUSION BONDED EPOXY POWDER COATING



National Paints offer a wide range of Fusion Bonded Epoxy Coatings as National NextGen functional series. National NextGen Series is available in single, dual, and multi layer system. It is developed to provide maximum corrosion protection for external and internal pipe coatings. Our complete range of FBE Coatings offers ultimate protection of pipe coating and rebar coating.



PRODUCT

External Pipe Coating
9100 SERIES

High Operating Temp FBE
9200 SERIES

Dual Layer FBE
9300 SERIES

LAT FBE
9400 SERIES

FBE for Valves & Fittings
9500 SERIES

Internal Pipe Coating
9600 SERIES

Rebar Coating
9700 SERIES

Custom Coating
9800 SERIES

PRODUCT DESCRIPTION

NP-F9100SG - Standard Gel FBE for single and multilayer system
NP-F9100FG - Faster Gel FBE for small diameter pipelines
NP-F9100LG - Longer Gel FBE for large diameter pipelines

NP-F9200HT - Operating Temp. 120° C
NP-F9201HT - Operating Temp. 140° C
NP-F9202HT - Operating Temp. 150° C

NP-F9300DL - Abrasion Resistant Overcoat (ARO)
NP-F9301DL - Anti Slip Top Coat
NP-F9302DL - UV Resistant Top Coat
NP-F9303DL - Extra Flexible Top Coat

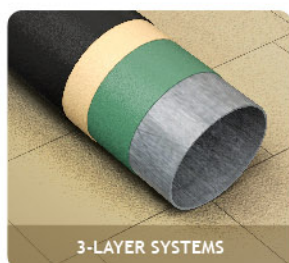
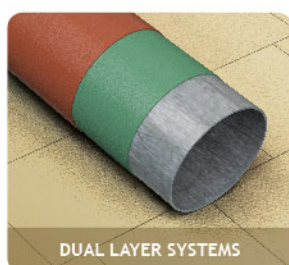
NP-F9400LAT - Low Application Temp FBE

NP-F9500PW - For use in contact with Drinking Water

NP-F9600IC - Internal Pipe Coating
NP-F9601IC - Extra flow and Chemical Resistant
NP-F9602IC - High Service Temp Internal Coating

NP-F9700RC - Faster Gel FBE for Rebar Coating
NP-F9701RC - Flexible FBE for Wire Mesh Coating

NP-F9800CC - For Custom Coating





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