Powder Coating Technologies supporting Façade Design

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Agenda

- Brief about AkzoNobel
- How new technologies can support façade design
- Powder coating and sustainability
- Digital support tools for specifiers & designers
- Questions
A global paints and coatings company

2017 key figures
- €9.6 bln revenue
- €1.2 bln EBITDA
- 35,700 employees

Business activities
- Decorative Paints
- Powder Coatings
- Marine and Protective Coatings
- Automotive and Specialty Coatings
- Industrial Coatings

Geographical distribution
- North America 12%
- Mature Europe 33%
- Emerging Europe 9%
- Asia Pacific 32%
- Latin America 9%
- Other countries 5%
- Other countries 5%

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Global leader in Powder Coatings manufacture and technology

- €1.1 billion in revenue
- 4,300 employees
- €26 mil research & development
- 30 production sites
- 40 countries
Our key markets

Architectural  Automotive  Functional  General Trade Coaters

General Industrial  ACE  Appliance  Furniture  IT
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Wide range of standard RAL colors readily available
Interpon Brilliance
Bright metallic powders

✓ Bonded aluminum pigments
✓ Standard and Super durable – and introducing
  Hyper durable quality (AAMA2605)
✓ Alternative to bright metallic liquid PVDF coatings
Bright metallics

Project : Dubai Arena
Location : City Walk, Dubai - UAE
Product : Interpon D2525 Brilliance YW215G

Fabricator : Permasteelisa
Coated Parts: Extrusions / Sheets
Applicators : Elite Extrusion / Joseph Industries
Interpon D3020 Brilliance
Bright hyperdurable metallic powders

Taking metallic powders to the next level

✓ Similar appearance as D2000
✓ **Hyperdurable**…meeting AAMA2605 requirements
✓ True alternative to liquid PVDF
Interpon D STF
Superdurable sublimation technology

Sublimation Technology: Transfer Aluminum into Wood

- Consistent quality
- Available in interior and exterior grades
- Meet AAMA2603/2604, Qualicoat Class 1/2
- Up to 10 years quality warranty
Sublimation Technology - Wood Imitation

- **Project**: Opera House (Dubai)
- **Product**: Interpon D2525 STF Textured
- **Consultant**: ATKINS
- **Fabricator**: Al Ghurair
- **Applicator**: Joseph Industries
Terracotta appearance

Project : Royal Palm Atlantis Resort
Product : YW2834 + 3 terracotta shades
Location : Dubai UAE
Consultant : KPF - New York
Heat Reflective Powders

- Energy saving from 3% up to 7%
- Touching temperature decreased by 7°C
- TSR value up to 79%
- Contributing to LEED accreditation
- Increase the thermal break systems efficiency
Heat Reflective Powders

Solar Innovation Center

Product: Eternity Collection (Ral 9002)
Architect: Kettle Collective
Location: Dubai (U.A.E.)
Fabricator: Petra Aluminium
Applicator: Alumetal
Anodized appearance

- Anodized imitation in powder coating
  - Anodized aluminium may not be repaired
  - Better color consistency (Specially for dark shades)
  - Steel and Aluminium substrate
  - Influence positively on LEED accreditation and green building
Interpon Précis
Ultra Matt superdurable powders

- Ultra matt powder coating (gloss 10-15)
- Amazing durability, meet AAMA 2604 & Qualicoat Class2
- Non-reflective
- Soft to the touch
- Selection of metallic colors, 6 products are available
Collection Futura
Reflecting design trends for over 20 years

✓ **Unique** finishes reflecting current trends in architectural design and color

✓ Conceived in 1993, launched as Futura range in 2000, and **updated every 4 years**, and continuously gaining popularity

✓ All finishes are Interpon D2015 **Superdurable & bonded** Technology, meeting:
  ✓ Qualicoat 2
  ✓ AAMA2604
  ✓ GSB Master
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Environmental Product Declaration (EPD) supporting LEED

What is an EPD®?

✓ EPD®: Environmental Product Declaration
✓ Independently verified and registered document
✓ Transparent and comparable information about the life-cycle environmental impact of products
✓ Support LEED grading

Website: http://www.environdec.com
Interpon D1000
Interpon D2000
Interpon D3000

First date of publication: 06 April 2015
Valid until: 02 May 2023
PCR reference: CPC division 3511 Paint and varnishes
PCR 2012:01 CONSTRUCTION PRODUCTS AND CONSTRUCTION SERVICES; ver.2.2 of 2017-05-30
Registration number: S-P-00548
Revision date: 03 May 2018
Verified by: NEVÉN Miljökonsult
Programme operator: The International EPD® System
Declaration owner: AkzoNobel Powder Coatings B.V.
Benefits of Interpon TGIC (TriGlycidyl IsoCyanurate) free powders:

- HSE/sustainability benefits:
  - Cleaner/healthier workplace,
  - Enables compliance with sustainability-requirements from customers
  - Lower risk/insurance premiums
  - Less safety measures
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AkzoNobel ‘Design’ App

- Created for specifiers of architectural coatings
- All information to generate your custom specification – right at your fingertips

Allows you to:

- Better understand the use of powdercoatings
- Create technical specification relevant to your specific project situation, based on internationally recognized standards
- Increase your specification efficiency
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