## Powder Coatings North American Frontiers

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#### Contents



### What are powder coatings?

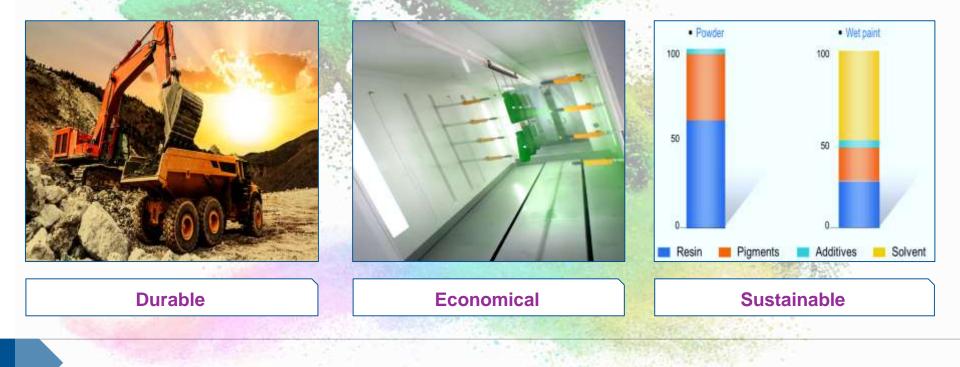


Free flowing mixture of resins, pigments, additives

Applied to the surface using an electro-static paint gun with air

Powder coated on to the substrate by melting the paint inside an oven

#### Why are powder coatings on the rise?



### Powder coatings: Where we are today?

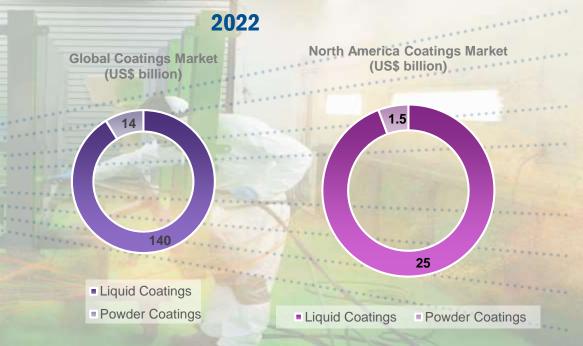
#### Legacy and growth of powder coatings

#### **1953**

Fluidized bed process is first used to make thermoplastic powders act like liquids for application

#### 1962

Electrostatic spraying makes powder coatings thinner and more marketable



#### **Powder's place in the industry** Architectural

Powder coatings protect and enhance the parts of a building and the built environment you can see, as well as those that you can't. Offering high degree of weathering protection.

Architeciural



#### **Powder's place in the industry** Automotive

#### Under Body / Under Hood

#### Trim Components

#### **OEM Wheels**

**Body Coatings** 

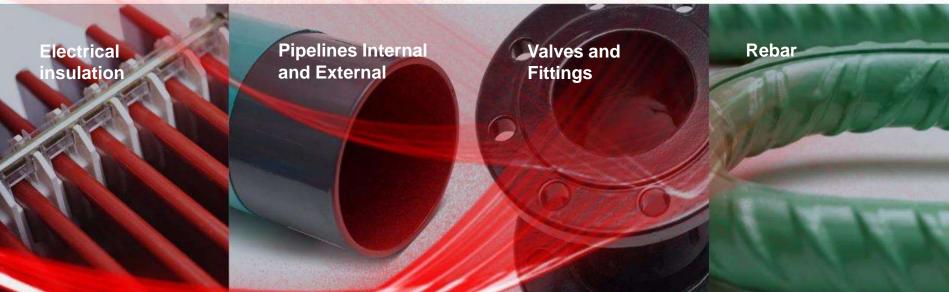
#### **Commercial Vehicles**

ACE

#### **Powder's place in the industry** Functional

Some critical environments need superior levels of protection, and coatings that perform in the most-challenging conditions

🖟 Functional



#### **Powder's place in the industry** Industrial

Powder coatings are an integral part of your life and ours. They protect everything from lamp shades to elevator cars, power saws to power turbines, inside and out. They protect the furniture we sit on, the oven we cook with, the toys with which our children play.



### **Coatings: Where does powder stand globally?**

#### **North America**

6%

of total coatings market

Europe & Asia

10% of total coatings market

Source: estimated from latest Orr & Boss

#### **Focusing on Architectural Market**

While Powder or Liquid coatings have architectural specifications in common, final decision depends in great part on:

- Fabricator Supply Chain
- Awarenesss level amongst stakeholders about both types of coatings
- Region or Location of Coating Application

### Architectural coatings around the world



## What are the next frontiers for powder coatings in North America?



# Expected expansion of powder coating frontiers

(\$billion)	2022	2032
Global	14	25
North America	2	3

Organic Growth

#### Liquid to Powder Transition

Heat sensitive substrates

Energy transition



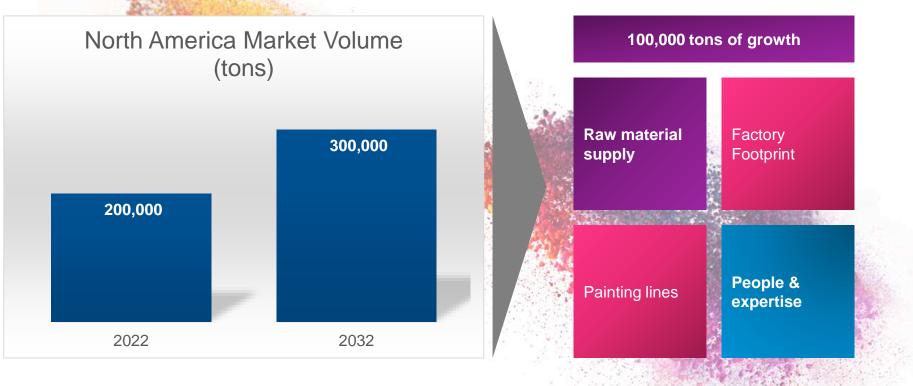






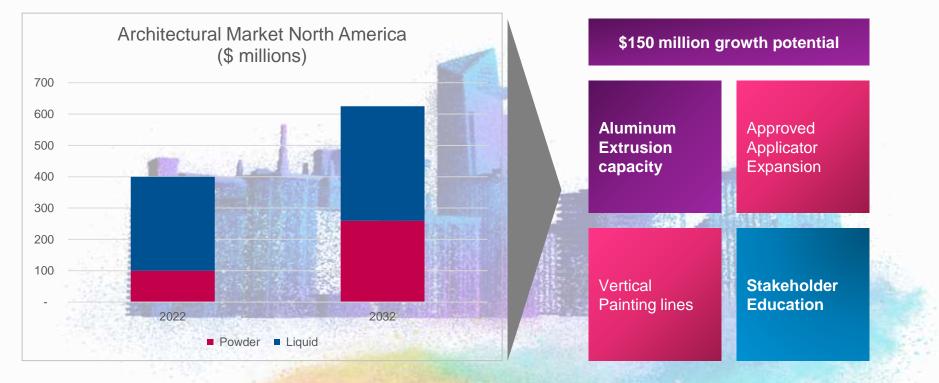
Source: estimated from latest Orr & Boss

## **Organic Growth**



Source: estimated from latest Orr & Boss

#### Transition to powder in Architectural North America

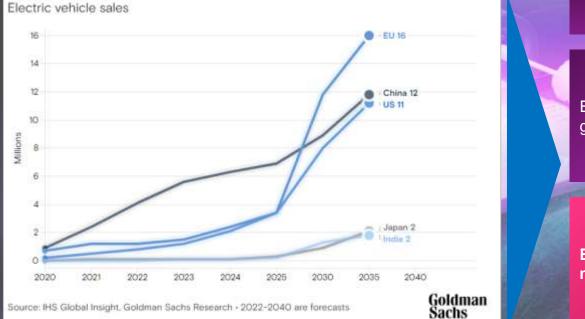


# Heat sensitive substrates potential in North America

Addressable powder coatings market & conversion by 2032 (\$ million) 400 Powder Coating



# E-mobility and electrical insulation potential in North America







The powder coatings market has grown over the last 6 decades due to its inherent advantages Significant opportunity for Architectural market growth with adoption of powder coatings in North America Greater than \$10 billion growth is expected globally in powder coatings over the next decade In North America, \$1 billion in growth will primarily come from organic growth and adoption into key new spaces Investment in manufacturing footprint and people expertise will be key to harness the growth potential

