



Japanese Power Coating

Advanced protection for Concrete and masonry surfaces

Introduction

The Japanese power coating is a high-performance, one-component, water-based coating designed for the maintenance and protection of concrete, masonry, and cement mortar surfaces. It enhances surface durability, prevents cracks, and extends the lifespan of walls by inhibiting deterioration.



Key Benefits

- **Superior Water Resistance** - Prevents water damage and moisture penetration
- **Enhanced Durability** - Strengthens surfaces, reducing the risk of cracks
- **Environmental & Mechanical Protection** - Suitable for both indoor and outdoor use
- **Long-Lasting Performance** - Extends the life of walls by preventing deterioration
- **Easy Application** - Can be applied with a roller or towel



Ideal Applications

- Concrete and masonry walls
- Interior and exterior surfaces
- High-moisture environments
- Areas exposed to mechanical stress
- Surfaces requiring extended durability



Technical Specifications

- **Certified Quality** - JIS A Certified by the Japan Paint Inspection and Testing Association (JPIA)
- **Formaldehyde Emission Class** - F☆☆☆☆ (low VOC)
- **Chemical Resistance :**
 - Water Resistance - No abnormalities after 7 days in water
 - Acid Resistance - No abnormalities after 7 days in 5% sulfuric acid
 - Alkali Resistance - No abnormalities after 7 days in saturated calcium hydroxide

Packaging (Typical)

- Container: Detachable lid, band-type steel pail
 - Net weight: 16 kg (plus or minus 3%)
 - Gross weight: 12.8 kg (plus or minus 3%)
 - Typical label : ORANGE
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Practical demonstration of strength



Application Process

1. Surface Preparation

Ensure surfaces are clean dry, and free from impurities. The surface has to be sufficiently dried to achieve a water absorption rate of 8% or less. If there are issues with substrate, please address them appropriately. If the inner reinforcement rods are exposed, remove any fragile parts, treat for rust prevention, fill with polymer cement mortar, and restore the shape accordingly.

3. Main Coating

Apply power coater coating in 2-4 layers for optimal protection

2. Primer Application

A solvent- or water-based primer on concrete/masonry surfaces

4. Topcoat Application (optional)

Use a water-based topcoat for extended durability and color customization

Simple Application methods include :

- **Roller** : Coating roller (13mm length) or Porous Roller
- **Trowel/Spatula** : For filling surface imperfections

Important not for Drying & Curing Times (at 23 degree Celsius)

- **Touch Dry:** 4 hours
- **Ready for Overcoat:** 4 hours
- **Fully Cured for Strength:** 14 days

Storage & Safety :

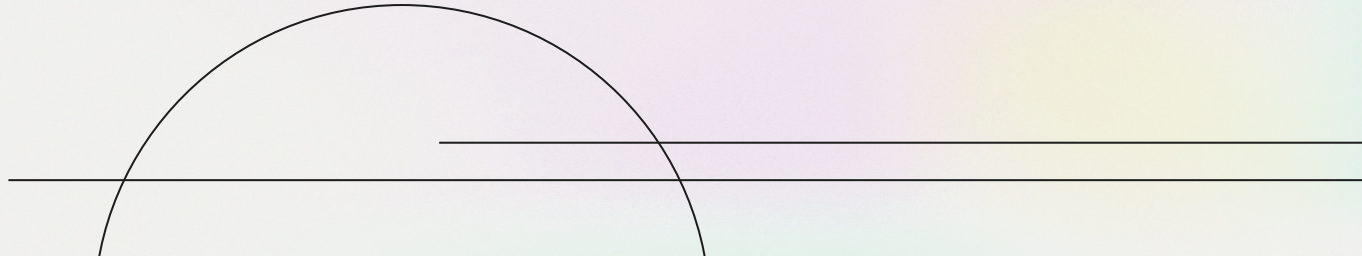
- Store in a dry, cool, well-ventilated area (below 40 degree celsius)
- Shelf life : 24 months
- Keep away from heat and ignition sources
- Use appropriate protective equipment during application



Our mission

0 Earthquake deaths

Main reason of deaths caused by earthquakes is the poor masonry and structuring of walls which then leads to people getting trapped in the debris. Globally, around 6 in 10 homes have masonry walls.



Impact of Power Coating

Experimental validation of a full-scale CHB wall at the 2nd largest in the world Shake table on Jan 2022 using CHB blocks from the Philippines funded by JICA with the support of NIED as a part of the accreditation scheme of DPWH Philippines. Minimal damage was observed in the wall coated with Power Coating® even when the wall was subjected multiple JMA intensity 7 shaking (1995 Kobe earthquake)



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NIED

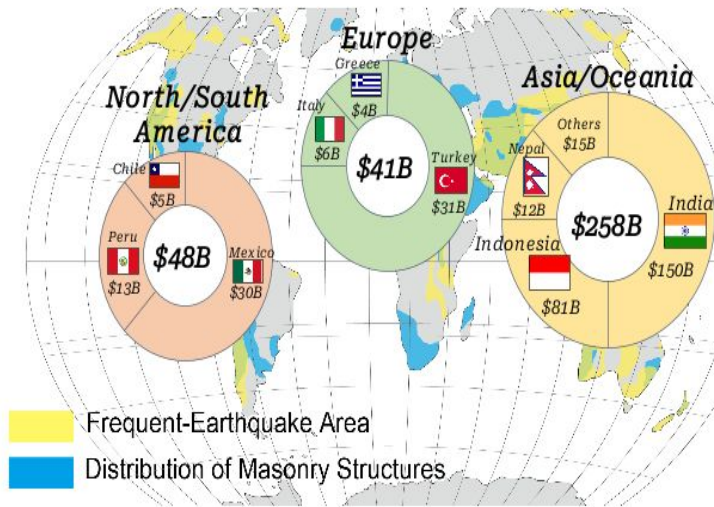
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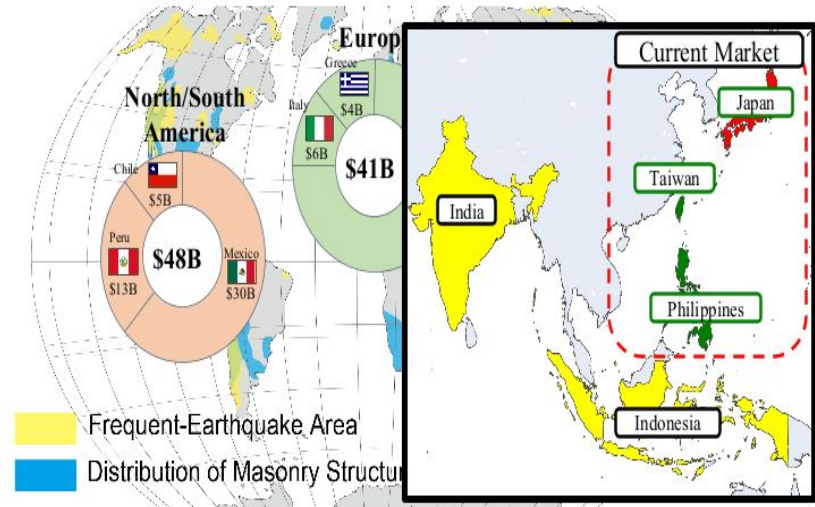
DPWH

Market Numbers and Evidence

Market Route map

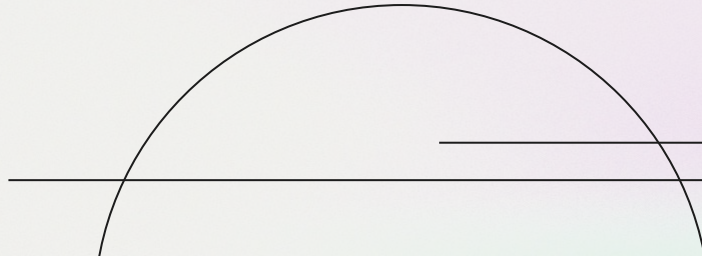


Market Route map



Why choose Power Coating?

- Certified and tested for high durability
- Easy-to-apply system with strong adhesion
- Protects against environmental and chemical damage
- Ideal for maintenance and long-term wall protection
- Innovative coating
- Backed by research and study at University of Tokyo
- Simple analysis and design



Examples

Maintenance of Buildings in the Japan



Seismic Retrofitting of School in the Philippines



THANK YOU

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