

Silane-Terminated Binder for the Protective Coating of Reinforced Concrete, Masonry, Stone, Brick, Tiles, Marble & Cementitious Floorings

Description

Today, many modern buildings showcase concrete or flowing-screed floors without any top-layers. These floorings have a special aesthetic appeal through their smooth and seamless surface, yet they stain very easily. With Lamco Coat® 6290C, LaMaCo Group's offers a new binder for both ready-to-use impregnating agents and thin coatings for cement bound floors. It provides excellent stain protection superior to conventional coatings and has a color-intensifying effect.

An Innovative Binder Based on a Patented Technology Lamco Coat® 6290C is an alpha-silane-terminated polyether based on LaMaCo Groups proprietary alpha-silane technology. Lamco Coat® 6290C cures on contact with moisture and its chemical structure has been optimized to achieve low viscosity. As a result, the binder penetrates deep into the pores of a cement-bound floor, filling the pores completely and forming a thin, shiny film on the surface. After the binder has cured, everyday substances containing water or oil are unable to enter the pores. The new binder therefore offers highly effective stain protection. Even substances that are left on the surface for some time can be removed without any lasting stains.

Application Range

Lamco Coat® 6290C is ideal for cement bound floors in industrial, commercial and private residential buildings. Examples are:

- Parking garages
- Car repair shops
- Train stations and logistics centre
- Showrooms
- Restaurants
- Event and convention centre
- Museums

Benefits of Coatings

Based on **Lamco Coat® 6290C**

- 1K Formulation with Transparent/Clear Coating
- Deep penetration
- Solvent free
- Excellent stain resistant
- Scratch resistant
- Color enhancing
- Polish able
- Easy to apply & Incombustible



Lamco Coat 6290C Apply by Roller



Apply Lamco Coat 6290C on Floor

Easy to Apply, Fast to Walk On Impregnating agents based on Lamco Coat® 6290C are usually applied two or three layers coat. The first coat strengthens the floor. A second produces a homogeneous surface that increases scratch and scrub resistance and makes the floor polish able. It is possible to walk on or drive over the floors about twenty-four hours after treatment.

Comparing Lamco Coat® 6290C with Other Impregnation Systems There are different systems available to increase the stain resistance of mineral surfaces. Compared with these systems, LamCo Coat® 6290C shows better stain resistance.

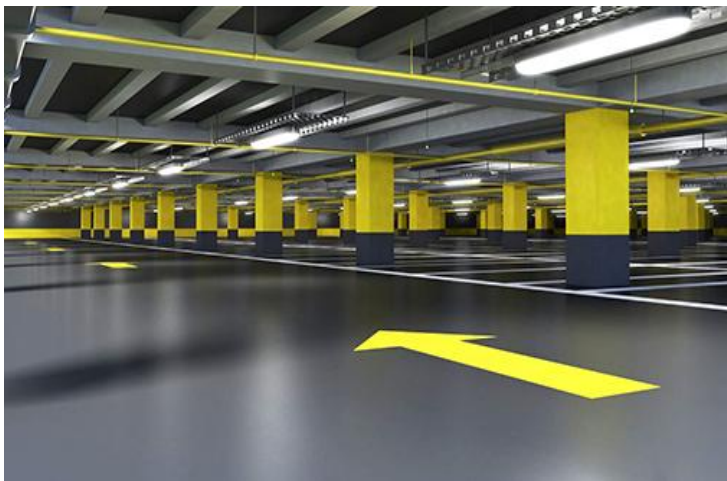
Lamco Coat® 6290C LaMaCo Groups	Silane Based Competitor [1]	Silicates Competitor [2]
New Technology	Well known	Well known
Solvent Free	Solvent based	Water
High Flash Point	Low Flash Point	Low Flash Point
Neutral	Neutral	Alkaline
Excellent anti-staining	Limited stain resistance	Very limited stain resistance

**Product Description of Lamco Coat® 6290C
Mechanical of Properties Specification (Result tested at 25 °C)**

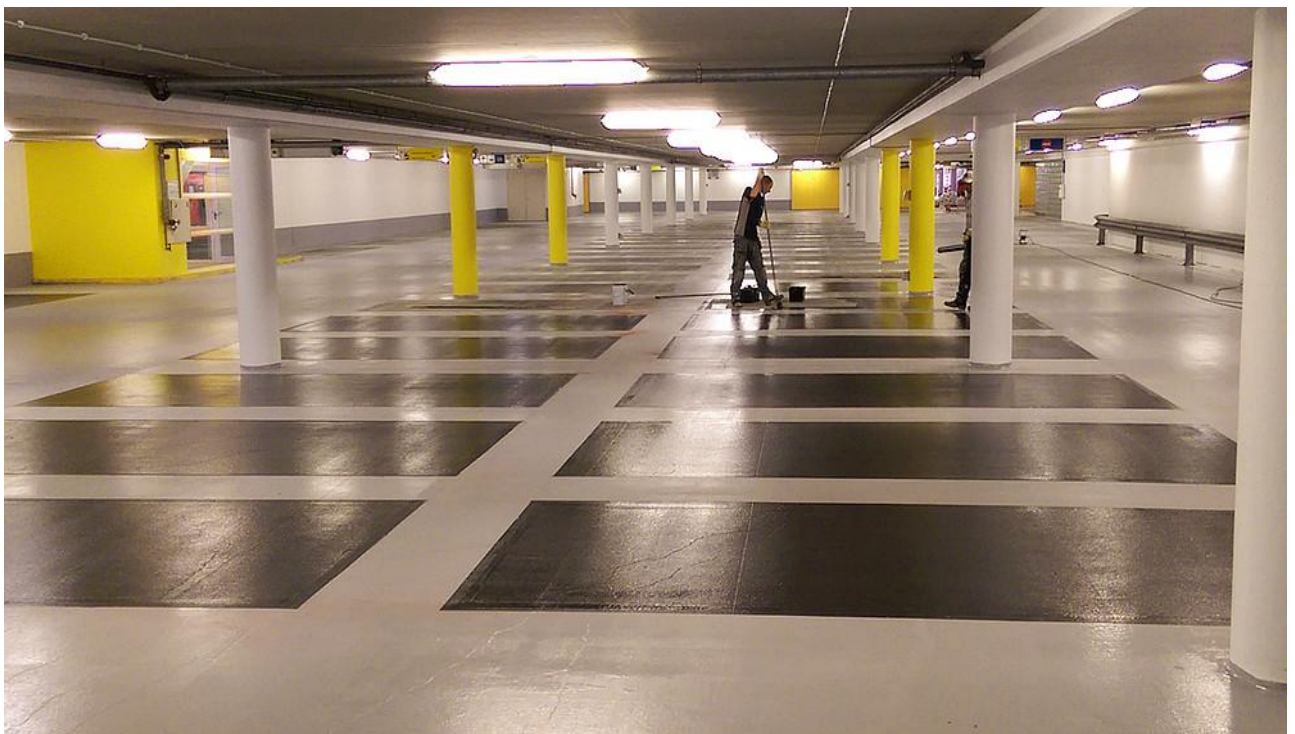
Solvents	: Solvent free
VOC-Content Low	: VOC (~0,5%, 6g/l) (Directive 2010/75 EU)
Flash Point	: >100 °C
Viscosity	: 75 mPas
Gravity	: 1.085 – 1.105/kg/cm3
Storage Behaviour	: Long-term stable and non-sensitive to moisture.
Tack Free	: >60 minutes at Temperature 25°C
Surface Drying	: 120 minutes – 180 minutes at Temperature 25°C
Fully Cured Time	: >24 hours
Penetration Deep	: Pass [DIN 4062]
Coverage	: Floor Surface 3-6/m2/kg [minimum required 2-3 Layers] : Wall Surface 5-8/m2/kg [minimum required 2 layers]
Packing	: 5.00 kg tin & 20.00 kg pail
Available of Color	: Clear/Transparency Liquid
Storage Shelf Life	: 12 months from date of manufacture if stored in tightly sealed : original packaging, in dry and temperature at 23 °C, cool enclosed area.



Lamco Coat 6290C Apply on Industrial Flooring



**Lamco Coat 6290C Apply on Car Park Floor
Primer Coat with Color, Body Coat with Color & Top/Finish Clear Coat [Matt & Glossy]**



**Lamco Coat 6290C Apply on Car Park Floor
Primer Coat Clear, Body Coat with Color & Top/Finish Clear Coat [Gloss Finish]**

System of Structure

System Application Step by Step	New Reinforced Concrete	
	Wet Layer Applied Consumptions	Dry Film Thick Consumptions
New Concrete Floor [Must at least of Age: 28 Days] Tested Moisture % on Floor, if more than >6% to be laying of Moisture Barriers Materials Surfaces Preparation by Sanding Machine such as Polish Machine is Required		
Lamco Coat Primer	0.15 kg/m2	0.135 mm
Lamco Coat 6290C	0.25 kg/m2 [1 st Layer]	0.225mm
Lamco Coat 6290C	0.15 kg/m2 [2 nd Layer]	0.135

System Application Step by Step	Old/Existing Reinforced Concrete	
	Wet Layer Applied Consumptions	Dry Film Thick Consumptions
Old/Existing Concrete Floor Tested Moisture % on Floor, if more than >6% to be laying of Moisture Barriers Materials Surfaces Preparation by Sanding Machine such as Polish Machine is Required		
Lamco Coat Primer	0.15 kg/m2	0.135 mm
Lamco Coat 6290C	0.25 kg/m2 [1 st Layer]	0.225mm
Lamco Coat 6290C	0.15 kg/m2 [2 nd Layer]	0.135

System Application Step by Step	Bricks, Stones, Tiles, Marbles & Artificial Fiber	
	Wet Layer Applied Consumptions	Dry Film Thick Consumptions
Bricks, Stones, Tiles, Marbles, Granite, Metal Roofing Deck & Artificial Fiber Surface preparation, by high pressure water jet		
Lamco Coat 6290C	0.15-0.25 kg/m2 [1 st Layer]	0.135-0.225mm
Lamco Coat 6290C	0.15 kg/m2 [2 nd Layer]	0.135mm



Washing the existing floor tiles joint



Tip:
Avoid overworking the area to
avoid drag marks & air bubbles

Apply **Lamco Coat 6290C** on floor joint



Before & After of Applying, the **Lamco Coat 6290C**



Before & After of Applying, the **Lamco Coat 6290C**

Reinforced Concrete Substrates

Any new or existing cavities in concrete should be filled with the appropriate repair materials in advance. Severe cracks in the substrate must be primed locally and after 2-3 hours (depending on the weather conditions) must be sealed with the epoxy sealer or epoxy putty.

Substrate Preparation In general, the substrate must be dry (moisture content <6%), clean, free of grease, loose particles, dust, etc.

Moisture Content <6% Concrete and other porous surfaces with moisture content less than <6% should be treated with the **Special Primer**, with a consumption of approx. 150-200g/m².

Moisture Content >6% Surfaces with moisture content more than >6% should be primed with the **special Moisture Barrier Epoxy Mortar or Polymer Cementitious Epoxy Mortar**, with a consumption of 5.70-9.50kgs/m²



LaMaCo System Sdn Bhd

407, Jalan Perusahaan 6,
Taman Bandar Baru Mergong,
05150 Alor Setar, Kedah. Malaysia

Tel : +60-4-771 1111

Fax : +60-4-772 4444

Http : www.lamaco.com

Email : info@lamaco.com

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