

PPG Flooring Solutions

Epoxy resin flooring systems for
factories and warehouses

Our coatings provide durable surfaces in industrial environments.



Selecting the right flooring product



At PPG, we have the right product to cover your industrial flooring needs.

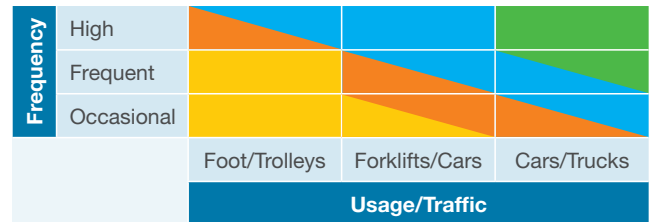
We are leaders in the manufacture of chemical resistant coatings. We also have extensive experience in the marine and nuclear power industries where the highest standards are demanded for cleanability, impact resistance and durability.

This know-how we use to offer excellent industrial flooring solutions for factories and warehouses where exceptional durability is also required to withstand impact and abrasion by pedestrians, machinery and forklifts.

Depending on the nature of your business, further characteristics may also be required such as chemical and UV resistance, aesthetic appearance, anti-skid performance and the ability to clean the surface easily.

Our offer

PPG offers four types of industrial floorings to accommodate the different frequencies and types of traffic. These options are explained in detail within this brochure.



- PPG NU-KLAD™ Aqua/Basic 120 DFT (µm)
- PPG NU-KLAD Coating 350 DFT (µm)
- PPG NU-KLAD SL 2000 DFT (µm)
- PPG NU-KLAD HD 2000-4000 DFT (µm)

Industrial areas with occasional light traffic

Many factory floors and showrooms may have limited traffic, but still need impact resistance to protect against footfall, machinery, and falling and bumping materials. Therefore, it is important to have a durable coating that forms a resistant barrier between the concrete surface and the environment.

To cater for different application preferences, we offer both a solvent-borne and waterborne solution: PPG NU-KLAD BASIC and PPG NU-KLAD AQUA.

Primer options

For direct application on concrete, we advise using a thinned version of PPG NU-KLAD BASIC or PPG NU-KLAD AQUA as the primer. This is typically applied as one layer up to saturation of the concrete.

Topcoat options

Epoxy coatings are generally not resistant to UV and can be susceptible to yellowing over time. Therefore a polyurethane topcoat on top of PPG NU-KLAD BASIC or PPG NU-KLAD AQUA can be added to offer additional aesthetic performance. We recommend using our semi-gloss PPG SIGMADUR™ 520 or gloss PPG SIGMADUR 550 topcoat products, which are also available in a wide range of colors.

Anti-skid options

When additional grip is required, anti-skid powder can be added. More information about application can be found in our supporting PPG NU-KLAD BASIC and PPG NU-KLAD AQUA product datasheets.

Frequency	High			
	Frequent			
	Occasional			
		Foot/Trolleys	Forklifts/Cars	Cars/Trucks
Usage/Traffic				

PPG NU-KLAD BASIC

- Solvent-borne epoxy coating
- Fast return to service
- Good abrasion resistance
- Available in a broad range of colors
- Suitable for use with anti-skid
- Semi-glossy appearance

PPG NU-KLAD AQUA

- Waterborne epoxy coating
- Fast return to service
- Good abrasion resistance
- Available in a broad range of colors
- Suitable for use with anti-skid
- Flat appearance

System recommendation - Solvent-borne

Layer	Solution	DFT
Primer	Thinned PPG NU-KLAD BASIC	Up to saturation of the concrete
Flooring	PPG NU-KLAD BASIC	125 µm
Topcoat	PPG SIGMADUR 520 or PPG SIGMADUR 550	50 µm

System recommendation - Waterborne

Layer	Solution	DFT
Primer	Thinned PPG NU-KLAD AQUA	Up to saturation of the concrete
Flooring	PPG NU-KLAD AQUA	2 x 60 µm
Topcoat	PPG SIGMADUR 520 or PPG SIGMADUR 550	50 µm

Impact and abrasion resistant coatings

Industrial areas with frequent traffic

For high frequency foot and trolley usage, frequent forklifts and car usage and/or occasional trucks, we offer PPG NU-KLAD COATING. This solvent-free epoxy coating forms a 350-µm layer and is more abrasion- and impact-resistant than our other PPG NU-KLAD BASIC and PPG NU-KLAD AQUA options.

Primer options

For direct application on concrete, we advise using PPG NU-KLAD IMP as an impregnating primer. PPG NU-KLAD IMP is compatible with PPG NU-KLAD COATING, PPG NU-KLAD SL and PPG NU-KLAD HD and is typically applied in one layer up to saturation of the concrete.

Topcoat options

Again, epoxy coatings are generally not resistant to UV and can be susceptible to yellowing over time. A polyurethane topcoat can be added to enhance finish and performance. We recommend using our semi-gloss PPG SIGMADUR 520 or gloss PPG SIGMADUR 550 topcoat products, which are available in a wide range of colors.

Anti-skid options

When additional grip is required, anti-skid powder can be added. More information about application can be found in our supporting PPG NU-KLAD product datasheet.

Frequency	High			
	Frequent			
	Occasional			
		Foot/Trolleys	Forklifts/Cars	Cars/Trucks
Usage/Traffic				

PPG NU-KLAD COATING

- Solvent-free epoxy coating
- Good abrasion resistance
- Excellent resistance against hot tires
- Available in a broad range of colors
- Glossy appearance

System recommendation

Layer	Solution	DFT
Primer	PPG NU-KLAD IMP	Up to saturation of the concrete
Flooring	PPG NU-KLAD COATING	350 µm
Topcoat	PPG SIGMADUR 520 or PPG SIGMADUR 550	50 µm



Industrial areas with heavy traffic

Warehouse floors in particular need a stronger and thicker protective barrier to cope with heavy impact from forklifts and trucks. PPG NU-KLAD SL offers the ideal solution for these environments. As a self-levelling, solvent-free epoxy it offers the additional benefit of being easy to apply. This product works by forming a strong barrier between the concrete surface and atmosphere and has specifically strong mechanical resistance. PPG NU-KLAD SL also resists chemical damage from diesel or gasoline spillages and has been tested for 'hot tires' resistance.

Primer options

For direct application on concrete, we advise using PPG NU-KLAD IMP as an impregnating primer. PPG NU-KLAD IMP is suitable for use with PPG NU-KLAD COATING, PPG NU-KLAD SL and PPG NU-KLAD HD and is typically applied in one layer up to saturation of the concrete.

Topcoat options

Epoxy coatings are generally not resistant to UV and can be susceptible to yellowing over time. Therefore a polyurethane topcoat on top of NU-KLAD SL can be added to offer additional aesthetic performance. We recommend our semi-gloss PPG SIGMADUR 520 or gloss PPG SIGMADUR 550 top products, which are available in a range of colors.

Anti-skid options

Again when additional grip is required, anti-skid powder can be added. More information about application can be found in our supporting PPG NU-KLAD SL product datasheet.

Frequency	High			
	Frequent			
	Occasional			
		Foot/Trolleys	Forklifts/Cars	Cars/Trucks
		Usage/Traffic		

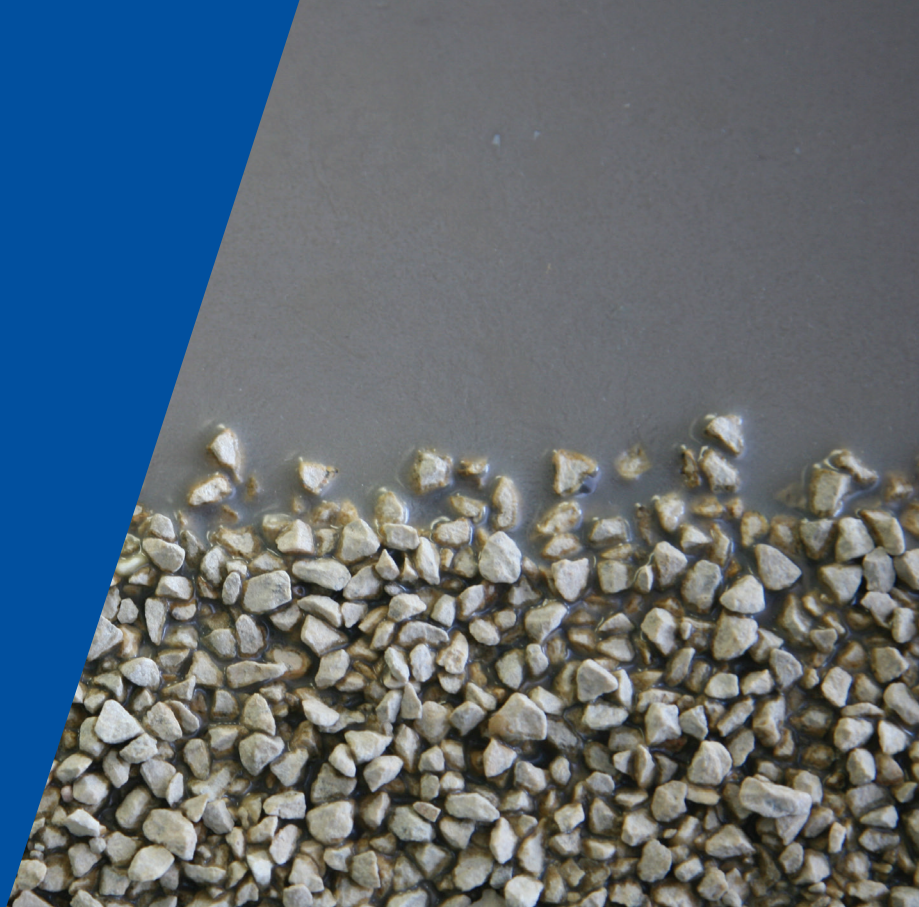
PPG NU-KLAD SL

- Solvent-free, self-leveling epoxy coating
- Excellent abrasion resistance
- Excellent resistance against hot tires
- Available in a broad range of colors
- Suitable for use with anti-skid
- Smooth and glossy appearance

System recommendation

Layer	Solution	DFT
Primer	PPG NU-KLAD IMP	Up to saturation of the concrete
Flooring	PPG NU-KLAD SL	2000 µm
Topcoat	PPG SIGMADUR 520 or PPG SIGMADUR 550	50 µm

The ultimate heavy-duty flooring solutions



Truck loading bays and truck entry areas with slopes typically require a high abrasion resistant anti-slip surface. PPG NU-KLAD HD is our heavy-duty, self-leveling, solvent-free epoxy that includes an anti-skid aggregate. This stands out from the flooring to form a rough and robust surface.

This solution is also used for bridge decks where its abrasion- and weather- resistance is an important feature and offers a lightweight alternative over concrete or asphalt.

Primer options

For direct application on concrete, we advise using PPG NU-KLAD IMP as an impregnating primer. This product is suitable for use with PPG NU-KLAD COATING, PPG NU-KLAD SL and PPG NU-KLAD HD and is typically applied in one layer up to saturation of the concrete.

Topcoat options

This solution is typically used where a rough and robust surface is required. Therefore, no polyurethane topcoats are advised.

Frequency	High			
	Frequent			
	Occasional			
		Foot/Trolleys	Forklifts/Cars	Cars/Trucks
Usage/Traffic				

PPG NU-KLAD HD

- Solvent free, self-levelling, anti-skid epoxy coating
- Excellent abrasion resistance
- Excellent dry and wet anti-skid property
- Excellent resistance against hot tires
- Rough and flat appearance

System recommendation

Layer	Solution	DFT
Primer	PPG NU-KLAD IMP	Up to saturation of the concrete
Flooring	PPG NU-KLAD HD	2000 - 4000 µm

Product overview

The table below summarizes the key characteristics of all the products we have mentioned within this brochure. For more information about our solutions, including the relevant product datasheets, please visit our website at www.ppgpmc.com

Product	Description	Key characteristics		Options		Application
		VS%	Typical DFT	Primer options	Topcoat options	Application by
PPG NU-KLAD BASIC	Solvent-borne epoxy for occasional light traffic industrial floors	72%	125 µm	Thinned version PPG NU-KLAD BASIC	Polyurethane (see options below)	Roller Airless spray
PPG NU-KLAD AQUA	Waterborne epoxy for occasional light- traffic industrial floors	53%	2 x 60 µm	Thinned version PPG NU-KLAD AQUA	Polyurethane (see options below)	Roller Airless spray
PPG NU-KLAD COATING	Solvent-free epoxy for medium-traffic floors	100%	350 µm	PPG NU-KLAD IMP	Polyurethane (see options below)	Trowel plus roller
PPG NU-KLAD SL	Solvent-free epoxy for heavy-traffic floors	100%	2000 µm	PPG NU-KLAD IMP	Polyurethane (see options below)	Trowel plus spike roller
PPG NU-KLAD HD	Solvent-free epoxy for high- abrasion, heavy -traffic floors	100%	2000 – 4000 µm	PPG NU-KLAD IMP	N/A	Trowel plus spike roller
PPG NU-KLAD IMP	Solvent-free, impregnating epoxy floor primer	100%	Up to saturation of the concrete	N/A	N/A	Roller Trowel

Topcoat options

Product	Description	VS%	Typical DFT	Appearance
PPG SIGMADUR 520	Aliphatic acrylic polyurethane semi-gloss finish coat	58%	50 µm	Semi-gloss
PPG SIGMADUR 550	Aliphatic acrylic polyurethane gloss finish coat	55%	50 µm	Gloss



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beautify the world™

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