

Nonstick Coatings for Better Bakeware



Liquid and powder coatings
for industrial bakeware



We protect and beautify the world™



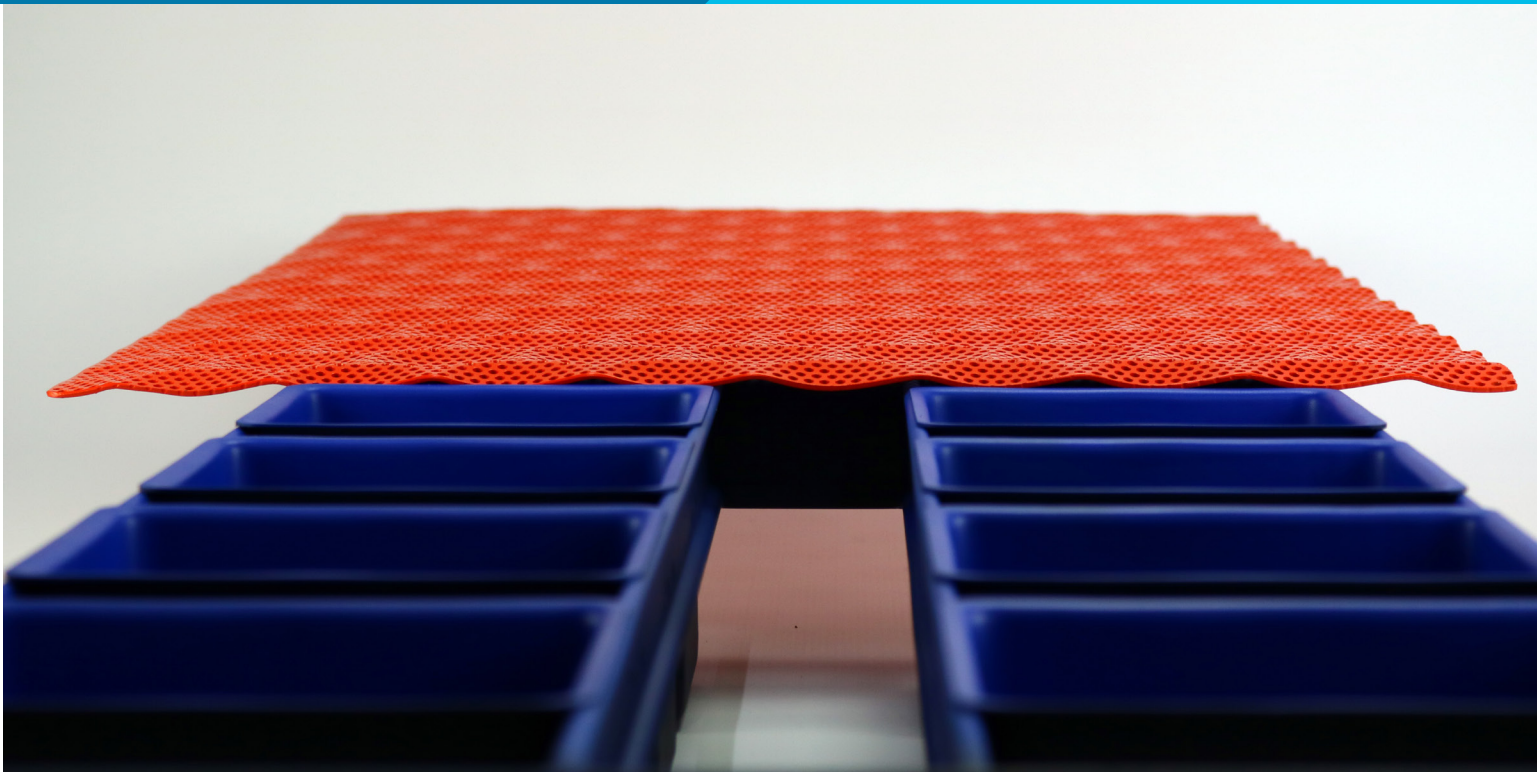
Industrial bakeware coatings from PPG

At PPG, our mission is to protect and beautify. For industrial bakeware, that means creating coatings designed to stand up to the demands of high-volume industrial and artisanal bakers all while adding a pop of color.

Our innovations are suitable for a broad range of products and backed by more than 125 years of innovation and a commitment to quality, performance and sustainability that drives confidence in the kitchen.

Table of Contents

Introduction	2
Applications for industrial bakeware	4
Waterborne	4
Solventborne	5
Powder	5



Non-stick coatings for better industrial bakeware

Our comprehensive line of non-stick coatings are available for both conventional HVLP and electrostatic spray applications. They offer the unique combination of excellent non-stick performance and durability, available for interior or exterior applications.

Coatings can be developed to meet specific color and visual effects, are available for a range of substrates and are designed to perform well under high fat, high sugar or protein-containing conditions, all while remaining food-safe compliant.

A global partner with a local presence

Feel confident choosing a partner in PPG who offers you the combination of global solutions and a local presence. All of our coatings have been formulated to meet the strict requirements you face today, with our teams keeping an eye towards the future.

Unique Benefits

- Coatings available as individual layers or as part of a two- or three-coat system
- Coatings have been tested to provide release for both sweet and savory baking
- Coatings available in a variety of finishes and effects
- Coatings available to suit a range of operating temperatures

Suggested markets

Industrial bakeware

Suggested end uses

Industrial bakeware coatings

Food processing machinery

Application Technologies

Spray





Applications for industrial bakeware

Waterborne

System	Coating Type	Product Name	Availability	Product Identifier	Chemistry	Features >	< Potential Benefits to Customer
Waterborne	Primer	Xylan	EMEA + AP	80-780	EP	NMP non intentionally added	Offers an alternative for customer requirements
						Waterborne product	Helps avoid flash rust during application
		Xylan	EMEA + AP	17-180	EP	NMP non intentionally added	Offers an alternative for customer requirements
						Reinforced coating	Provides enhanced abrasion resistance compared to non-reinforced coatings
					Low VOC	Saves cost associated with reduced requirement for environmental controls	
Waterborne	Midcoat	Xylan	Global	1700	PFA	Suitable for manual or robotic application as a mid or topcoat	Provides enhanced permeation resistance and longevity in multi-coat system per Atlas Cell test*
		Xylan	Global	1756	FEP	Suitable for manual or robotic application as a mid or topcoat	Provides enhanced permeation resistance and longevity in multi-coat system per Atlas Cell test*
Waterborne	Topcoat	Xylan	Global	80-610	PFA	Our longest lasting liquid topcoat	Offers improved permeation resistance at high temperature end uses compared to all other liquid topcoats.
						High film build dispersion technology	Suitable for application in deep tins
		Xylan	Global	80-650	FEP	Our best performance for lower temperature and high sugar bakery applications	Improved permeation resistance compared to other liquid coatings
						High film build dispersion technology	Suitable for application in deep tins
					Low cost	Provides nonstick properties at a price point lower than PFA	
Waterborne	Exterior	XYLAC®	EMEA + AP	4660WB	EP	Cost effective	Provides a low-cost alternative to using a primer
						Accepts powder overspray	Enables use of powder topcoats
						NMP non intentionally added	Offers an alternative for customer requirements

*Tests at 100 hours of boiling water

Performance		Substrates			VOCs with exemptions		Cure	In service	Application	
Quality	Reinforced	Aluminium	Mild Steel	Aluminized Steel	≤ 420 g/L	≥ 421 g/L	Recommended Cure Profile	Maximum Operating Temperature	Conventional Spray / HVLP	Electricstatic spray
Best		✓	✓	✓		✓	As Top Coat	As Top Coat	✓	
Best	✓	✓	✓	✓	✓		As Top Coat	As Top Coat	✓	
Best		As primer	As primer	As primer	✓		400°C/752°F: 15mins	260°C/500°F	✓	
Better		As primer	As primer	As primer	✓		400°C/752°F:15mins	205°C/401°F	✓	
Best		As primer	As primer	As primer	✓		400°C/752°F: 20-30mins	260°C/500°F	✓	
Better		As primer	As primer	As primer	✓		400°C/752°F: 20-30mins	205°C/401°F	✓	
Best	✓	✓	✓	✓		✓	400°C/752°F: 5mins	260°C/500°F	✓	



Continued on next page

Waterborne (continued)

System	Coating Type	Product Name	Availability	Product Identifier	Chemistry	Features >	< Potential Benefits to Customer
Waterborne	2 coat	Xylan	Americas	8254 Primer	PTFE	Standard nonstick system	Provides versatility and performance at a entry-level price point
				8257 Topcoat			
		Xylan	EMEA + AP	8221 Primer	PTFE	Standard nonstick system	Provides versatility and performance at a entry-level price point
				8224 Topcoat			
		Xylan XLR	Global	17-080 or 17-180 Primer	PTFE	Choice of primers with low or medium reinforcement	Offering a broader range of abrasion resistance
				17-353 Topcoat		Advanced, premium technology nonstick system	Our longest lasting 2-coat liquid system offering versatility and high release performance
		MATRIX®	Global	80S-088 Primer 80S-089 Topcoat	Sol Gel	Hard surface characteristics	Provides strong abrasion resistance compared to PTFE coatings
						Low cure temperature	Suitable for temperature sensitive substrates
Made without PTFE	Provides an alternative to fluoropolymers						

Waterborne	3 coat	Xylan	Global	17-010 17-110 17-310	PTFE	Improved permeation resistance compared to other PTFE coatings per Atlas Cell test*	Offering enhanced longevity in aggressive conditions compared to 2-coat systems
						Excellent resistance to alkali**	Suitable for pretzel baking

Solventborne

Solventborne	Preprimer	Xylan	Global	40-460	EP	Optional primer layer	Provides an enhanced corrosion protection
						Replaces the aluminum layer worn away by grit blasting of used trays	Extends the number of times a tray can be recoated

Solventborne	Primer	Xylan	EMEA + AP	80-718	EP	Wide colour range	Suits a broad range of aesthetic preferences
						NMP non intentionally added	Offers an alternative for customer requirements

Powder

Powder	Topcoat	Xylan	Global	80-510	PFA	Our best, longest lasting topcoat for use in high-speed bakeries	Maximizes usage time between the recoating of trays
						Suitable for manual or robotic application	Provides a high level of spray efficiency
						Formulated without VOCs	Saves cost associated with reduced requirement for environmental controls
		Xylan	Global	80-550	FEP	Suitable for manual or robotic application	Provides a high level of spray efficiency
						Formulated without VOCs	Saves cost associated with reduced requirement for environmental controls

*Tests at 100 hours of boiling water

**Coating passes pretzel cycle test where they use a caustic solution

Performance		Substrates			VOCs with exempts		Cure	In Service	Application	
Quality	Reinforced	Aluminium	Mild Steel	Aluminized Steel	≤ 420 g/L	≥ 421 g/L	Recommended Cure Profile	Maximum Operating Temperature	Conventional Spray / HVLP	Electricstatic spray
Good		✓	✓	✓	✓		420°C/788°F: 5mins	260°C/500°F	✓	
Good		✓	✓	✓	✓	✓	420°C/788°F: 5mins	260°C/500°F	✓	
Better	✓	✓	✓	✓	✓		400°C/752°F: 15mins	260°C/500°F	✓	
Good		✓	✓	✓		✓	300°C/572°F: 10mins	288°C/550°F	✓	
Better		✓	✓	✓	✓		400°C/752°F: 15mins	260°C/500°F	✓	
Best		✓	✓	✓		✓	As Top Coat	As Top Coat	✓	
Best		✓	✓	✓		✓	As Top Coat	As Top Coat	✓	
Best		As primer	As primer	As primer	✓		400°C/752°F: 15mins	260°C/500°F	✓	✓
Better		As primer	As primer	As primer	✓		400°C/752°F: 15mins	205°C/401°F	✓	✓



PPG: WE PROTECT AND BEAUTIFY THE WORLD™



A trusted global coatings leader

Operations in 70 countries, with 150+ manufacturing facilities and 70,000+ employees



Renowned color expertise

Trend-setting palettes for home, kitchen, auto and industry paired with unrivaled color matching



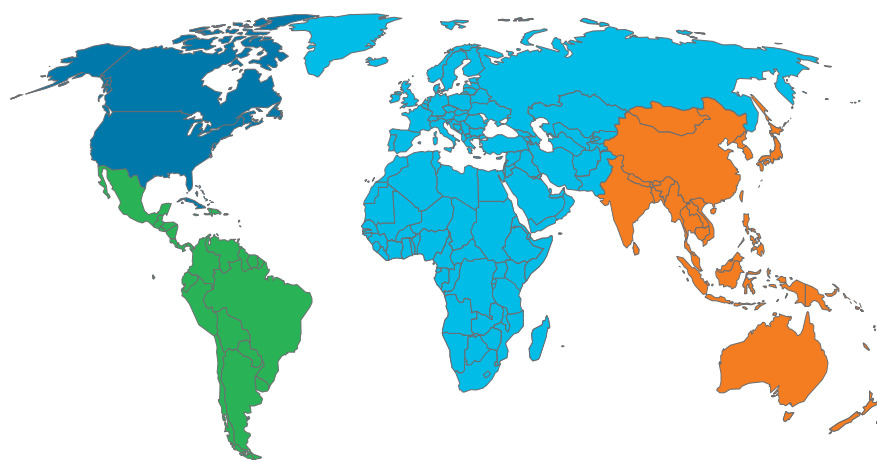
Commitment to sustainability

Over 30% of annual sales from sustainably advantaged products and processes



Dedication to innovation

3,500+ technical employees and \$470+ MM average annual R&D investment



Industrial coatings from PPG

- World-class technical services and training
- Help meeting specific, coatings-related environmental mandates
- Assistance setting up new equipment and identifying areas where your processes may be streamlined
- Troubleshooting production issues
- SECURE LAUNCH EXCELLENCE™ accelerated custom product formulation and color development process

To learn more about PPG coatings, please visit us online at ppgindustrialcoatings.com, or contact one of the international sales offices listed below.

PPG Regional Headquarters

■ PPG Global Headquarters / PPG North America
Pittsburgh, PA USA
1.888.774.2001
ic-na@ppg.com

■ PPG Latin America
Sumare, Sao Paulo, Brazil
+ 55.19.3864.6000
ic-latam@ppg.com

■ PPG Europe, Middle East and Africa
Rolle, Switzerland
+ 41.21.822.3000
ic-emea@ppg.com

■ PPG Asia Pacific
Hong Kong, China
+ 852.2860.4500
ic-ap@ppg.com

■ PPG China HQ
Shanghai, China
+86 21 60918500
ic-cn@ppg.com

This document contains general information only and should not be construed as creating any warranties, express or implied. Please contact a PPG representative for additional information.

Xylan, Xylan XLR, Xylac, Matrix and the PPG logo are registered trademarks and We protect and beautify the world is a trademark of PPG Industries Ohio, Inc. ©2021 PPG Industries, Inc. All rights reserved. 07/21 IC1333

PPG Industrial Coatings • One PPG Place, Pittsburgh, PA 15272 • 1.800.258.6398 • ppgindustrialcoatings.com



We protect and beautify the world™