

# Nonstick coatings for a more colorful kitchen



Sol-Gel and PTFE technology  
for consumer cookware



We protect and beautify the world™



## Consumer coatings from PPG

At PPG, our mission is to protect and beautify. For consumer cookware, that means adding not just an eye-catching color, but the durability and safety consumers come to expect from their cookware.

Our innovations are suitable for a broad range of products and backed by more than 135 years of innovation and a commitment to quality, performance and sustainability that drives confidence in the kitchen.

## Table of Contents

Introduction .....	2
Made without PFAS* nonstick coatings .....	3
Classic waterborne PTFE nonstick coatings.....	4

\* Specially formulated without PFAS as an intentionally added ingredient



## Imagine the possibilities

Our comprehensive line of Whitford nonstick coatings are available in a range of options for consumer cookware applications. They offer the unique combination of excellent nonstick performance and durability, available in both PTFE and Sol-Gel technology that is made without PFAS substances.

Coatings can be developed to meet specific color, texture and visual effects, all while remaining food-contact 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 toward the future.

### Unique Benefits

- Made without PFAS coatings available
- Coatings are available in two- or three-coat systems
- Select coatings include unique additives or reinforcements for added durability
- Many coatings are metal utensil- and/or dishwasher-safe
- Select coatings have been developed with unique properties including the ability to heat more evenly

### Suggested markets

Consumer Cookware

### Suggested end uses

Cookware coatings

### Application Technologies

Spray

Roller



## Nonstick coatings for consumer cookware

		MADE WITHOUT PFAS*		
		FUSION™	Fusion HR	Fusion PRO
Product Characteristics	Chemistry	Sol-gel	Sol-gel	Sol-gel
	Coating system	2 coats	2 coats	2 coats
	Product Identifier	8088 Primer 8089 Topcoat	80-188 Primer 80-189 Topcoat	80-288 Primer 80-289 Topcoat
	Availability	Global	Global	Global
	Features	Hard, durable non-stick surface	Great overall durability	Long-lasting, non-stick release
	Benefits	Offers improved wear resistance compared to entry-level PTFE coatings	Improved performance, thermal resistance and release vs. standard <i>Fusion</i> coatings	PPG lab tested to last twice as long as comparable sol-gel coatings
Performance	Quality	Good	Better	Best
	DFT (µm)	30-55	30-55	30-55
	Wet Abrasion cycles	30,000 - 50,000	10,000 - 30,000	> 50,000
	HFT / Scratch	NA	NA	NA
	Life cycle release**			
	Accelerated Dishwashing Simulation Test***	>4 cycles	>10 cycles	>20 cycles
	Thermal Shock Test	>4 cycles	>10 cycles	>15 cycles
Substrates	Rolled Aluminum	✓	✓	✓
	Forged Aluminum	✓	✓	✓
	Cast Aluminum	✓	✓	✓
	Hard Anod. Aluminum	✓	✓	✓
	Stainless Steel	✓	✓	✓
Cure	Recommended Cure Profile	280-330°C / 536-625°F	280-330°C / 536-625°F	280-300°C / 536-572°F
V.O.Cs g/l	≤ 420 (low)			
	> 421 (high)	✓	✓	✓
Application	Conventional Spray	✓	✓	✓
	Rollercoat			
Sub-Segments	Interior	✓	✓	✓
	Exterior			

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Classic PTFE Waterborne					
SKANDIA™ Xtreme	XYLAN® Plus		QUANTANIUM®	ECLIPSE™	ETERNA™
PTFE	PTFE		PTFE	PTFE	PTFE
1 Primer coat 1 Midcoat 3 Topcoats	2 coats		3 coats	3 coats	2 coats
7610 Primer 7620 Midcoat 7630 Topcoat	8255 Primer 8257 Topcoat	8294 Primer 8253 Topcoat	7141 Primer 7242 Midcoat 7343 Topcoat	7151 Primer 7252 Midcoat 7353 Topcoat	71-050 Primer 73-353 Topcoat
Global	EMEA	APAC	Global	Global	Global
Roller coating system with high release	Low-cost coating available for use in a wide range of applications		Titanium reinforced coating with high abrasion resistance and release	High abrasion resistance	Our longest-lasting non-stick coating
Allows for added durability in post-formed, cost-driven cookware	Provides nonstick properties at a competitive application cost		Offers improved performance compared to <i>Xylan</i> at a mid-range price point	Offers great resistance to scratches, wear and damage	Provides excellent release over the life of the coating
Good	Good	Better	Best	Best	Best
20-25	20-30	30-40	40-50	35-45	
2,000 - 10,000	500 - 8,000	15,000 - 25,000	30,000 - 60,000	10,000 - 25,000	
3-4	3-4	6-8	8-10	5-8	
500 - 5,000	1,000 - 8,000	10,000 - 25,000	25,000 - 60,000	35,000 - 70,000	
✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
400-425°C / 750-798°F	380-415°C / 715-780°F		415°C / 780°F	415°C / 780°F	415°C / 780°F
✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓
✓					
✓	✓	✓	✓	✓	✓
✓					

\*\* Internal Test 165N score

\*\*\* One accelerated dishwashing cycle represents approximately 50 standard dishwashing cycles



## PPG: WE PROTECT AND BEAUTIFY THE WORLD™



### A trusted global coatings leader

Operations in 70+ countries, with 100+ manufacturing facilities and ~50,000 employees



### Renowned color expertise

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



### Commitment to sustainability

Over 39% 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](http://ppgindustrialcoatings.com), or contact one of the international sales offices listed below.

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