



# Superior weathering performance while meeting low-VOC requirements

Acronal PLUS 4240 is an all acrylic resin developed for exterior flat to satin paints. Optimized for high performance at low-VOCs (50 g/l), this product delivers excellent dirt-pick up resistance and dry-film resilience (high scrubs). Acronal PLUS 4240 is a high-solids latex that can be formulated with or without zinc oxide.

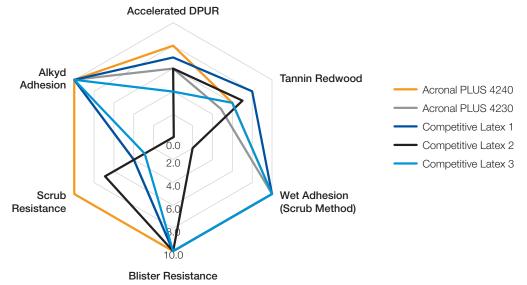
#### **Features**

- Excellent dirt pick-up resistance
- Durable dry-film performance (high scrubs)
- Low-VOC capable (50 g/l)
- APEO-free
- Low odor
- 100 % Acrylic

### **Properties**

Solids content, weight %	52.0 – 54.0
Solids content, volume %	49.0 – 51.0
VOC content, weight %	< 0.2
VOC content, volume %	< 0.2
Brookfield Viscosity, cps	< 1000
Particle size, nm	240 approx.

### Performance of Acronal PLUS 4240 in exterior flat paint formulation

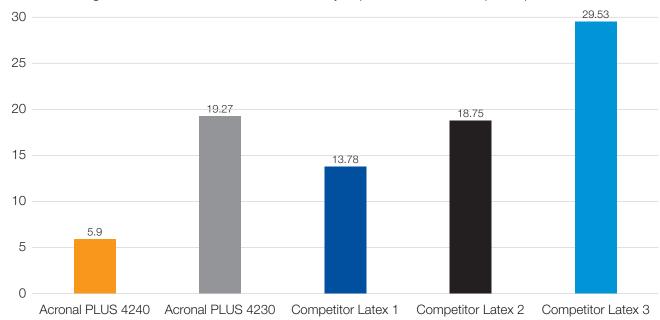


	Acronal PLUS 4240	Acronal PLUS 4230	Competitive Latex 1	Competitive Latex 2	Competitive Latex 3
Accelerated DPUR	8	6	7	6	4
Tannin Redwood	6	5	8	7	8
Wet Adhesion Scrub method	10	10	10	2	10
Blister Resistance	10	10	10	10	10
Scrub Resistance	10	4	4	7	3
Alkyd Adhesion	10	10	10	0	10



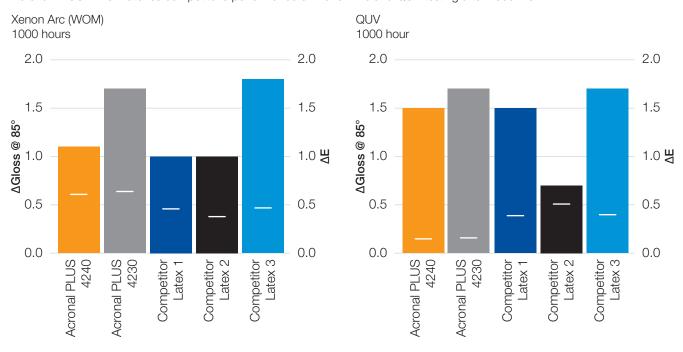
### **Dirt Pick-up Resistance**

Acronal PLUS 4240 has been engineered to deliver excellent dirt pick-up resistance. Data from prolonged exposure and accelerated DPUR testing confirms that Acronal PLUS 4240 consistently outperforms relative to competitive products



### **Accelerated Weathering**

Acronal PLUS 4240 matches competitor's performance on Xenon Arc and QUV testing after 1000 hrs.



Δ Gloss @ 85° (bars, left axis)

— ∆E (right axis)

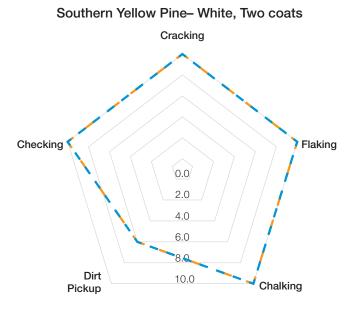


### **Natural Weathering**

After 36 months of exterior exposure in BASF's Charlotte, NC weathering facility, Acronal PLUS 4240 demonstrates excellent capacity to weather the elements (south facing at 45°).









### Formulation Guidelines

### **Dispersants**

The Dispex® line of dispersants are recommended for this product. Hydrophobic dispersants Dispex CX 4320 and Dispex CX 4340 have proven effective, with a good balance of tint strength and performance properties. Tamol® 165 has also been used effectively.

#### **Defoamers**

The FoamStar® line of defoamers can be used for Acronal PLUS 4240. Specifically, FoamStar ST 2420 is a well-rounded option for formulating with this dispersion.

### **Rheology Modifiers**

HEUR, HMPE, HASE, and cellulosic rheology modifiers are all compatible with Acronal PLUS 4240. Rheovis® rheology modifiers have resulted in great performance properties at low VOC. Use of Rheovis PE 1331 allows for the formulator to meet required high- shear targets at flat through satin sheens while maintaining balanced low-shear contributions. KU range low-shear targets can be met with the addition of Rheovis PU 1191. Formulations have shown stable viscosities over time using the combination of these two rheology modifiers.

### Coalescence

It is recommended for full coalescence, that 5% by weight on polymer solids be used of either low VOC Loxanol® CA 5310 or Loxanol CA 5315.



### **Suggested Formulations**

raw materials	lbs	gallons
Water	50.00	15.02
Kronos <sup>9</sup> 4311	294.00	6.00
Dispex <sup>2</sup> CX 4320	8.00	0.28
FoamStar <sup>2</sup> ST 2420	2.00	0.87
Hydropalat <sup>2</sup> WE 3320	3.00	0.35
Ammonium Hydroxide (aq.)	1.40	0.19
Proxel <sup>3</sup> BD20	3.00	0.33
Minex <sup>4</sup> 4	230.00	10.57
Attagel <sup>2</sup> 50	4.00	0.20
Grind for 20 minutes, then a	ıdd:	
Letdown		
Water	145.94	17.52
Polyphase <sup>7</sup> 663	10.00	1.03
FoamStar <sup>2</sup> ST 2420	2.00	0.28
Acronal <sup>2</sup> PLUS 4240	365.50	42.14
Velate <sup>5</sup> 368	6.00	0.75
Rheovis² PE 1331	35.00	4.07
Rheovis² PU 1191	3.50	0.41
Total	1163.34	100
Viscosity (KU)	90-100	
Viscosity (ICI)	1.0-1.5	
Gloss 85°	<5.0	
Weight Solids %	58	
Volume Solids %	40.3	
PVC %	45.6	
VOC g/L	17	

Exterior Flat Acronal PLUS 4240 with Zinc Oxide           raw materials         lbs         gallons           Water         50.00         15.02           Kronos <sup>9</sup> 4311         294.00         6.00           Dispex <sup>2</sup> CX 4320         8.00         0.28           FoamStar <sup>2</sup> ST 2420         2.00         0.87           Hydropalat <sup>2</sup> WE 3320         3.00         0.35           Ammonium Hydroxide (aq.)         1.40         0.19           Proxel <sup>3</sup> BD20         3.00         0.33           KTPP         1.00         0.05           Minex <sup>4</sup> 4         230.00         10.57           ZnO Grade 10110         15.00         0.32           Attagel <sup>2</sup> 50         4.00         0.20           Grind for 20 minutes, then add:         Vater         141.94         17.04           Polyphase <sup>7</sup> 663         10.00         1.03         FoamStar <sup>2</sup> ST 2420         2.00         0.28           Acronal <sup>2</sup> PLUS 4240         365.50         42.14         Velate <sup>5</sup> 368         7.00         0.87           Rheovis <sup>2</sup> PE 1331         35.00         4.07           Rheovis <sup>2</sup> PU 1191         3.50         0.41           Total         1176.34         100.00					
Water       50.00       15.02         Kronos⁰ 4311       294.00       6.00         Dispex² CX 4320       8.00       0.28         FoamStar² ST 2420       2.00       0.87         Hydropalat² WE 3320       3.00       0.35         Ammonium Hydroxide (aq.)       1.40       0.19         Proxel³ BD20       3.00       0.33         KTPP       1.00       0.05         Minex⁴ 4       230.00       10.57         ZnO Grade 10110       15.00       0.32         Attagel² 50       4.00       0.20         Grind for 20 minutes, then add:       Vater       141.94       17.04         Polyphase² 663       10.00       1.03       1.03         FoamStar² ST 2420       2.00       0.28         Acronal² PLUS 4240       365.50       42.14         Velate⁵ 368       7.00       0.87         Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0         Weight Solids %       58.7 <th colspan="5"></th>					
Kronos <sup>9</sup> 4311       294.00       6.00         Dispex <sup>2</sup> CX 4320       8.00       0.28         FoamStar <sup>2</sup> ST 2420       2.00       0.87         Hydropalat <sup>2</sup> WE 3320       3.00       0.35         Ammonium Hydroxide (aq.)       1.40       0.19         Proxel <sup>3</sup> BD20       3.00       0.33         KTPP       1.00       0.05         Minex <sup>4</sup> 4       230.00       10.57         ZnO Grade 10110       15.00       0.32         Attagel <sup>2</sup> 50       4.00       0.20         Grind for 20 minutes, then add:       Water       141.94       17.04         Polyphase <sup>7</sup> 663       10.00       1.03         FoamStar <sup>2</sup> ST 2420       2.00       0.28         Acronal <sup>2</sup> PLUS 4240       365.50       42.14         Velate <sup>5</sup> 368       7.00       0.87         Rheovis <sup>2</sup> PE 1331       35.00       4.07         Rheovis <sup>2</sup> PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0         Weight Solids %       58.7	raw materials	lbs	gallons		
Dispex² CX 4320       8.00       0.28         FoamStar² ST 2420       2.00       0.87         Hydropalat² WE 3320       3.00       0.35         Ammonium Hydroxide (aq.)       1.40       0.19         Proxel³ BD20       3.00       0.33         KTPP       1.00       0.05         Minex⁴ 4       230.00       10.57         ZnO Grade 10110       15.00       0.32         Attagel² 50       4.00       0.20         Grind for 20 minutes, then add:       Vater       141.94       17.04         Polyphase² 663       10.00       1.03         FoamStar² ST 2420       2.00       0.28         Acronal² PLUS 4240       365.50       42.14         Velate⁵ 368       7.00       0.87         Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Water	50.00	15.02		
FoamStar² ST 2420       2.00       0.87         Hydropalat² WE 3320       3.00       0.35         Ammonium Hydroxide (aq.)       1.40       0.19         Proxel³ BD20       3.00       0.33         KTPP       1.00       0.05         Minex⁴ 4       230.00       10.57         ZnO Grade 10110       15.00       0.32         Attagel² 50       4.00       0.20         Grind for 20 minutes, then add:       141.94       17.04         Polyphase⁻ 663       10.00       1.03         FoamStar² ST 2420       2.00       0.28         Acronal² PLUS 4240       365.50       42.14         Velate⁵ 368       7.00       0.87         Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100       Viscosity (ICI)         Viscosity (ICI)       1.0-1.5       Gloss 85°       <5.0	Kronos <sup>9</sup> 4311	294.00	6.00		
Hydropalat² WE 3320 3.00 0.35  Ammonium Hydroxide (aq.) 1.40 0.19  Proxel³ BD20 3.00 0.33  KTPP 1.00 0.05  Minex⁴ 4 230.00 10.57  ZnO Grade 10110 15.00 0.32  Attagel² 50 4.00 0.20  Grind for 20 minutes, then add:  Water 141.94 17.04  Polyphase⁻ 663 10.00 1.03  FoamStar² ST 2420 2.00 0.28  Acronal² PLUS 4240 365.50 42.14  Velate⁶ 368 7.00 0.87  Rheovis² PE 1331 35.00 4.07  Rheovis² PU 1191 3.50 0.41  Total 1176.34 100.00  Viscosity (KU) 90-100  Viscosity (ICI) 1.0-1.5  Gloss 85° <5.0  Weight Solids % 58.7	Dispex <sup>2</sup> CX 4320	8.00	0.28		
Ammonium Hydroxide (aq.) 1.40 0.19  Proxel³ BD20 3.00 0.33  KTPP 1.00 0.05  Minex⁴ 4 230.00 10.57  ZnO Grade 10110 15.00 0.32  Attagel² 50 4.00 0.20  Grind for 20 minutes, then add:  Water 141.94 17.04  Polyphase⁻ 663 10.00 1.03  FoamStar² ST 2420 2.00 0.28  Acronal² PLUS 4240 365.50 42.14  Velate⁵ 368 7.00 0.87  Rheovis² PE 1331 35.00 4.07  Rheovis² PU 1191 3.50 0.41  Total 1176.34 100.00  Viscosity (KU) 90-100  Viscosity (ICI) 1.0-1.5  Gloss 85° <5.0  Weight Solids % 58.7	FoamStar <sup>2</sup> ST 2420	2.00	0.87		
Proxel³ BD20       3.00       0.33         KTPP       1.00       0.05         Minex⁴ 4       230.00       10.57         ZnO Grade 10110       15.00       0.32         Attagel² 50       4.00       0.20         Grind for 20 minutes, then add:       Water       141.94       17.04         Polyphase⁻ 663       10.00       1.03         FoamStar² ST 2420       2.00       0.28         Acronal² PLUS 4240       365.50       42.14         Velate⁵ 368       7.00       0.87         Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Hydropalat <sup>2</sup> WE 3320	3.00	0.35		
KTPP       1.00       0.05         Minex <sup>4</sup> 4       230.00       10.57         ZnO Grade 10110       15.00       0.32         Attagel <sup>2</sup> 50       4.00       0.20         Grind for 20 minutes, then add:         Water       141.94       17.04         Polyphase <sup>7</sup> 663       10.00       1.03         FoamStar <sup>2</sup> ST 2420       2.00       0.28         Acronal <sup>2</sup> PLUS 4240       365.50       42.14         Velate <sup>5</sup> 368       7.00       0.87         Rheovis <sup>2</sup> PE 1331       35.00       4.07         Rheovis <sup>2</sup> PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Ammonium Hydroxide (aq.)	1.40	0.19		
Minex <sup>4</sup> 4       230.00       10.57         ZnO Grade 10110       15.00       0.32         Attagel <sup>2</sup> 50       4.00       0.20         Grind for 20 minutes, then add:         Water       141.94       17.04         Polyphase <sup>7</sup> 663       10.00       1.03         FoamStar <sup>2</sup> ST 2420       2.00       0.28         Acronal <sup>2</sup> PLUS 4240       365.50       42.14         Velate <sup>5</sup> 368       7.00       0.87         Rheovis <sup>2</sup> PE 1331       35.00       4.07         Rheovis <sup>2</sup> PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Proxel <sup>3</sup> BD20	3.00	0.33		
ZnO Grade 10110       15.00       0.32         Attagel² 50       4.00       0.20         Grind for 20 minutes, then add:       Water       141.94       17.04         Polyphase² 663       10.00       1.03         FoamStar² ST 2420       2.00       0.28         Acronal² PLUS 4240       365.50       42.14         Velate⁵ 368       7.00       0.87         Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	KTPP	1.00	0.05		
Attagel² 50       4.00       0.20         Grind for 20 minutes, then add:       141.94       17.04         Water       141.94       17.04         Polyphase² 663       10.00       1.03         FoamStar² ST 2420       2.00       0.28         Acronal² PLUS 4240       365.50       42.14         Velate⁵ 368       7.00       0.87         Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Minex <sup>4</sup> 4	230.00	10.57		
Grind for 20 minutes, then add:         Water       141.94       17.04         Polyphase <sup>7</sup> 663       10.00       1.03         FoamStar <sup>2</sup> ST 2420       2.00       0.28         Acronal <sup>2</sup> PLUS 4240       365.50       42.14         Velate <sup>5</sup> 368       7.00       0.87         Rheovis <sup>2</sup> PE 1331       35.00       4.07         Rheovis <sup>2</sup> PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	ZnO Grade 10110	15.00	0.32		
Water       141.94       17.04         Polyphase <sup>7</sup> 663       10.00       1.03         FoamStar <sup>2</sup> ST 2420       2.00       0.28         Acronal <sup>2</sup> PLUS 4240       365.50       42.14         Velate <sup>5</sup> 368       7.00       0.87         Rheovis <sup>2</sup> PE 1331       35.00       4.07         Rheovis <sup>2</sup> PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Attagel <sup>2</sup> 50	4.00	0.20		
Polyphase <sup>7</sup> 663       10.00       1.03         FoamStar² ST 2420       2.00       0.28         Acronal² PLUS 4240       365.50       42.14         Velate⁵ 368       7.00       0.87         Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Grind for 20 minutes, then add:				
FoamStar² ST 2420       2.00       0.28         Acronal² PLUS 4240       365.50       42.14         Velate⁵ 368       7.00       0.87         Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Water	141.94	17.04		
Acronal² PLUS 4240       365.50       42.14         Velate⁵ 368       7.00       0.87         Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Polyphase <sup>7</sup> 663	10.00	1.03		
Velate <sup>5</sup> 368       7.00       0.87         Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	FoamStar <sup>2</sup> ST 2420	2.00	0.28		
Rheovis² PE 1331       35.00       4.07         Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Acronal <sup>2</sup> PLUS 4240	365.50	42.14		
Rheovis² PU 1191       3.50       0.41         Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Velate <sup>5</sup> 368	7.00	0.87		
Total       1176.34       100.00         Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Rheovis² PE 1331	35.00	4.07		
Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0	Rheovis² PU 1191	3.50	0.41		
Viscosity (KU)       90-100         Viscosity (ICI)       1.0-1.5         Gloss 85°       <5.0		1170.01	100.00		
Viscosity (ICI)         1.0-1.5           Gloss 85°         <5.0	lotal	11/6.34	100.00		
Viscosity (ICI)         1.0-1.5           Gloss 85°         <5.0	Viscosity (KLI)	90-100			
Gloss 85° <5.0 Weight Solids % 58.7					
Weight Solids % 58.7					
VUIDITIE 301105 70 40.0					
PVC % 46.1					
VOC g/L 20					



### **Suggested Formulations**

Exterior Satin Acronal PLUS 4240		
raw materials	lbs	gallons
Water	100.00	12.00
Proxel <sup>3</sup> GXL	2.00	0.21
Ethylene Glycol	8.00	0.86
Ammonium Hydroxide	1.00	0.13
Dispex <sup>2</sup> CX 4240	6.00	0.64
FoamStar <sup>2</sup> ST 2420	2.00	0.28
Natrosol <sup>1</sup> 330 Plus	1.00	0.09
Minex <sup>4</sup> 7	100.00	4.61
Attagel <sup>2</sup> 50	2.00	0.10
Grind for 20 minutes, ther	add:	
Water	88.63	10.64
FoamStar <sup>2</sup> ST 2420	2.00	0.28
Texanol <sup>5</sup>	8.00	1.01
Ti-Pure 6 R 746	330.00	16.99
Acronal <sup>2</sup> PLUS 4240	420.00	48.28
Rheovis² PE 1331	20.00	2.33
Rheovis² PU 1191	8.00	0.93
Polyphase <sup>7</sup> 678	6.00	0.62
Total	1104.63	100.00
Viscosity (KU)	90 - 95	
Viscosity (ICI)	1.5 - 2.0	
Gloss 85°	40 - 45	
Weight Solids %	53.8	
Volume Solids %	37.9	
PVC %	33.7	
VOC g/L	50	



## Safety

### General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

### **Material Safety Data Sheet**

Please refer to the most current version of the Material Safety Data Sheet that can be found on-line at www.basf.us/sds

### **Storage**

Acronal PLUS 4240 should be stored in accordance with the "Handling and Storage of polymer dispersions" brochure. Technical information regarding the storage of BASF polymer dispersion products is available upon request. Product should not be allowed to freeze.

## **About the Dispersions & Resins Business**

The Dispersions & Resins business of BASF develops, produces and markets a range of high-quality resins, additives, colorants and polymer dispersions worldwide. These raw materials are used in formulations for coatings and paints, printing and packaging products, construction chemicals, adhesives, fiberbondings, nonwovens, and paper manufacturing. With a comprehensive product portfolio and extensive knowledge of the industries we serve, our customers benefit from innovative and sustainable solutions to help them advance their formulations through chemistry. For further information about the Dispersions & Resins business in North America, please visit http://www.basf.us/dpsolutions

### **About BASF**

BASF Corporation, headquartered in Florham Park, New Jersey, is the North American affiliate of BASF SE, Ludwigshafen, Germany. BASF has more than 18,200 employees in North America and had sales of \$17.9 billion in 2017. For more information about BASF's North American operations, visit www.basf.com.

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The more than 115,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into five segments: Chemicals, Performance Products, Functional Materials & Solutions, Agricultural Solutions and Oil & Gas. BASF generated sales of €64.5 billion in 2017. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (BAS). Further information at www.basf.com.

### **United States and Canada**

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### Trademark Usage

- <sup>1</sup> Registered trademark Ashland, Inc
- <sup>2</sup> Registered trademark of BASF Group
- <sup>3</sup> Registered trademark of Lonza
- <sup>4</sup> Registered trademark of Unimin Corp
- <sup>5</sup> Registered trademark of Eastman Chemical Company
- <sup>6</sup> Registered trademark of The Chemours Corp.
- <sup>7</sup> Registered trademark of Troy Corporation
- <sup>9</sup> Registered trademark of Kronos International, Inc.
- <sup>10</sup> ZnO Grade 101 is a product of Zochem ULC

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