

# Wetting agents

for improved paint performance

**AkzoNobel**



# Bring out the best in your paint

Paints and coatings are complex formulations with multiple components. It is crucial to have a good wetting agent that allows all the ingoing components to mix well with each other to add quality and stability to the formulation.

AkzoNobel Surface Chemistry offers a selection of high performing wetting agents that will bring out

the most in your paint. Our wetting agents can contribute in several ways to improve the paint quality and are able to:

- **Increase the color acceptance** in tinted paints
- **Increase the hiding power**
- **Reduce the particle size** of ingoing pigments
- **Improve the scrub resistance**

Ask us  
how to ...

... reduce your  
pigment load

... replace alkyl/  
nonyl phenol based  
wetting agents

... improve color  
acceptance

# Bring out the most in your production

Compared to our competitors' products, wetting agents from AkzoNobel give smaller particle sizes which increases the hiding power of the pigment. This enables the paint producer to reduce the pigment load and to save both material and cost. The fast wetting properties of our products also help to speed up the mill base step in your paint production.

## Wetting agents for sustainable formulations

AkzoNobel is committed to working for a sustainable future. We make sure that we are always up to date with the latest and upcoming regulatory demands and concerns. This is our way of helping our customers to produce sustainable, long lasting paint formulations.

Our wetting agents are:

- APEO free
- NP replacers
- VOC free (< 1%)
- Very low in SVOC content

## Berol 185 – our label-free, biodegradable option

Berol 185 is our superior solution due to its high performance and label-free status. It is non-toxic, non-irritant, readily biodegradable and works in most emulsion paint formulations. We also offer multiple other wetting agents to meet the needs of a wide range of formulations.

## Product overview

Product	Properties					Value adding						
	VOC (wt%)	SVOC (wt%)	Active content (wt%)	Pour point (°C)	HLB (Griffin method)	Color acceptance	Color strength	Particle Fines	Stability	Low foaming	Scrub resistance	Anti sagging
Berol 185 *	< 1%	< 2%	90	0	13.5	✓	✓	✓	✓	✓	✓	✓
Berol 048 *	< 1%	< 4%	85	0	13.5	✓	✓	✓	✓			
Ethylan 1008 **	< 2%	< 3%	100	12	14	✓		✓	✓		✓	✓
Ethylan CDP 1480 *	< 3%	< 1%	80	13	15.6	✓		✓	✓			

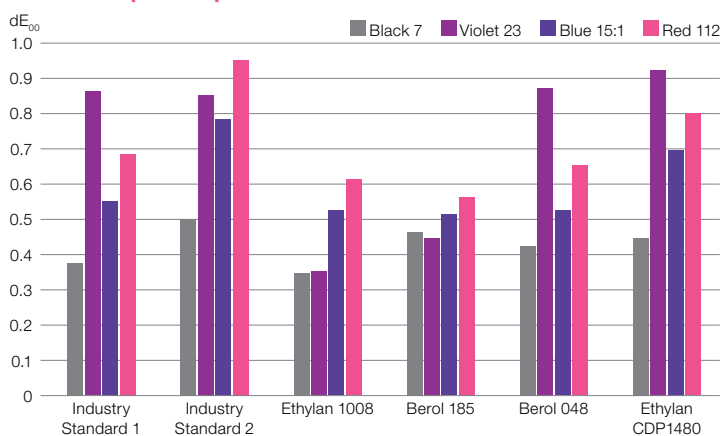
\* Globally available

\*\* Available in most countries, please check with your regional sales contact

## How to use our products

Our wetting agents are suitable for a broad variety of water based paints and coatings. Acrylic, styrene/acrylic latex and alkyd emulsion paints are just a few examples. Best results are obtained if the wetting agent is added to the mill base. We generally recommend adding 0.2–0.3 wt% on the total paint formulation.

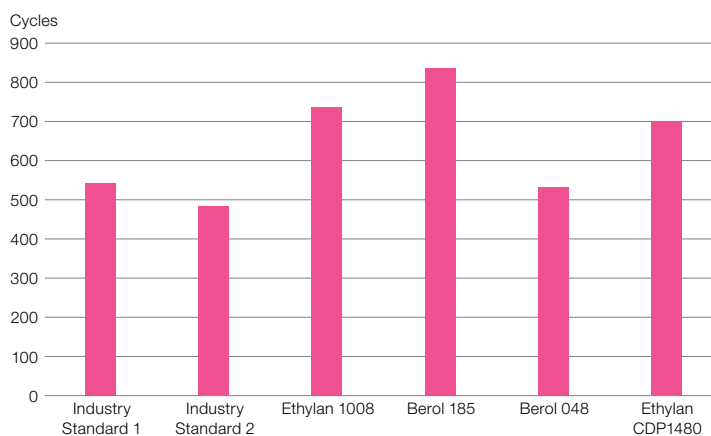
## Color acceptance performance



Acrylic paint formulation with 0.2% wetting agent, 2% colorant added

Evaluation of Color Acceptance, 2 wt% colorant in an acrylic paint with 0.2 wt% wetting agent. The lower the dE<sub>00</sub> values the less difference between the drawdown and rub-out areas. Below 0.5 is considered non-visible to the naked eye.

## Scrub resistance



Acrylic paint formulation with 0.2% wetting agent. Test according to ASTM D2486

Scrub resistance evaluation of acrylic paint, 0.2% wetting agent added. The test was made in accordance with ASTM D2486.

# Planet Possible: Our commitment to doing more with less

Our success as a company depends on sustainability. At AkzoNobel we have sharpened our focus on sustainability by reviewing our sustainability risks and opportunities against global trends and evaluating how they will impact our customers by 2020. We express the outcome as our Planet Possible approach to sustainability. It's our commitment to creating more value from fewer resources.



We know only too well that our future hinges on our ability to radically do more while using less.

- More innovation, less traditional solutions;
- More renewable energy and materials, less fossil-based;
- More value chain focus, less introverted thinking.

Employing our new strategy of radical efficiency, we work with customers and suppliers to open infinite possibilities to a finite world. Learn more at [www.akzonobel.com/planetpossible](http://www.akzonobel.com/planetpossible)

## Number 1

was our position in the Materials industry group on the 2015 Dow Jones Sustainability Index.

## At least 20%

is the share of revenue we aim to achieve by 2020 from products with a sustainability advantage for customers.

## More than 25%

is the reduction we aim to achieve in our cradle-to-grave carbon foot print per ton of product by 2020.

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AkzoNobel is a leading global paints and coatings company and a major producer of specialty chemicals. Calling on centuries of expertise, we supply industries and consumers worldwide with innovative products and sustainable technologies designed to meet the growing demands of our fast-changing planet. Headquartered in Amsterdam, the Netherlands, we have approximately 46,000 people in around 80 countries, while our portfolio includes well-known brands such as Dulux, Sikkens, International, Interpon and Eka. Consistently ranked as one of the leaders in the area of sustainability, we are committed to making life more liveable and our cities more human.

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