

## certificates lacquers and stains

- DIN EN 12720 EM3009-0015

furniture surfaces - behaviour at chemical influence (DIN 68861-1:2011-01) in combination with assesment of surface resistance to cold liquids. (ISO 4211 German version EN12720:2009).

- DIN EN 53160 EM3009-0015

the cured films meet the requirements of EN 12720, demands group 1B (resistance to chemical influence) and DIN 53160 (resistant to saliva and perspiration).

- European Toy safety standard: EN71-3:2013

product is expected to fulfil the requirements of the European Toy safety standard: EN71-3:2013 regarding migration of certain elements.

## CERTIFICATE

### Migration of elements from dry coating

We hereby state that the below listed product is expected to fulfil the requirements of the European Toy safety standard: EN71-3:2013 regarding migration of certain elements. This statement is based on the information received on raw material level by our suppliers.

#### *Maximum migrated element in mg/kg toy material*

	<i>[mg/kg]</i>		<i>[mg/kg]</i>		<i>[mg/kg]</i>
Aluminium (Al)	70 000	Chromium VI (Cr)	0,2	Selenium (Se)	460
Antimony (Sb)	560	Cobalt (Co)	130	Strontium (Sr)	56 000
Arsenic (As)	47	Copper (Cu)	7 700	Tin (Sn)	180 000
Barium (Ba)	18 750	Lead (Pb)	160	Organic tin	12
Boron (B)	15 000	Manganese (Mn)	15 000	Zink (Zn)	46 000
Cadmium (Cd)	17	Mercury (Hg)	94		
Chromium III (Cr)	460	Nickel (Ni)	930		

### Products

**AQUATOPSTAR Grund EL3008, 10:1 with AQUATOPSTAR Härter EV3005**

**AQUATOPSTAR EM3006-00XX, 10:1 with AQUATOPSTAR Härter EV3005**

**AQUATOPSTAR Matt EM3009-0015, 10:1 with AQUATOPSTAR Härter EV3005**

Wuppertal, 31.08.2018  
Sherwin-Williams Deutschland GmbH



i.A. Stephan Kögler,

team leader waterborne/radiation curing

# Technical data sheet

# AQUATOPSTAR EM3009-0015

## Product description

Waterborne 2K Polyurethane lacquer for kitchen-, home-, and office furniture with high transparency and fast drying speed. The cured films meet the requirements of EN 12720, demands group 1B (resistance to chemical influence) and DIN 53160 (resistant to saliva and perspiration).

## Product data

<b>Gloss:</b>	10-15	Gardner 60°
<b>Shade</b>	transparent	
<b>Non-volatile contents</b>	36,56%	(theoretical)
<b>Density:</b>	1,048	g/mL
<b>Viscosity:</b>	35-40 sec.	DIN4/20°C
<b>Frost sensitive:</b>	yes	
<b>Storing:</b>	6 month	unopened 15-25°C

## Mixing / Application

**Application methods:** Spraying - AIRMIX (Air assisted), Airless

Hardener	Amount*	Thinner	Viscosity DIN 4	Application amount	Pot-life
EV3005	10%	water	35-40 sec.	90-110 g/m <sup>2</sup>	4h

\* To 100 parts paint by volume

**Stir well before use!**

## Drying / Curing

Method	Drying conditions	Drying time	Notes:
<b>Air drying</b>	20° C	1 hour 3 hours 24 hours	dust dry for sanding for stacking
<b>Forced drying</b>			

By increased temperatures, all kind of drying requires good ventilation and circulation

## Safety instructions

### General Information

According to German legislation we provide information regarding dangerous materials. The Safety Data Sheet contains facts about the components, which present the dangerous characteristics. The Safety Data Sheet will be sent on request. All values and recommendations above are to be considered as guidance only. Many factors beyond our control may have an influence on the coating result. Should a problem arise, please contact us and we will advise accordingly. We reserve the right to alter the above specifications.

ARTI is a brand of

**TEST REPORT**

Furniture surfaces - Behaviour at chemical influence (DIN 68861-1:2011-01)  
in combination with assesment of surface resistance to cold liquids. (ISO 4211 German version EN12720:2009)

System: **SHERWIN-WILLIAMS - ARTI 1x stain 2x EM3009-0015**  
Client: **Project DUM**

DETERGENT		Duration of action (Ewd) and result (erg) in the stress group					
		1 B					
		Exposition	Erg Result	Erg Result	Erg Result	Erg Result	Erg Result
				EM3009-0015 Beech nature	EM3009-0015 Green nature	EM3009-0015 Pink nature	EM3009-0015 Grey nature
1	Acetic acid	60 min	5	4	5	5	5
2	Citric acid	60 min	5	5	5	5	5
3	Ammonia solution	2 min	5	5	5	5	5
4	Ethyl alcohol	60 min	4	3-4	3	3	3
5	Redwine	6 h	5	4	4	4	4
6	Beer	6 h	5	4	5	5	5
7	Cola	16 h	5	5	5	5	5
8	Coffee	16 h	5	5	5	5	5
9	Black Tea	16 h	5	5	5	5	5
10	Blackcurrant juice	16 h	5	5	5	5	5
11	Milk, condensed	16 h	5	5	5	5	5
12	Water	16 h	5	5	5	5	5
13	Petrol	2 min	5	x	x	x	x
14	Acetone	10 sec	2	3	3	3	3
15	Ethyl-Butyl acetate	10 sec	2	5	4	4	4
16	Butter	16 h	5	x	x	x	x
17	Olive oil	16 h	5	5	5	5	5
18	Mustard	6 h	5	5	5	5	5
19	Onion	6 h	5	5	5	5	5
20	Disinfectant	10 min	5	5	5	5	5
23	Detergent	60 min	5	4	5	5	5
24	Cleaning solution	60 min	5	4	5	5	5
Adhesive strength (cross-hatching method) according DIN EN ISO 2409				Gt 0	Gt 0	Gt 0	Gt 0
Gloss level 60 ° measurement angle				5	5	5	5

**Results**

- 5 **No visible changes (no damage)**
- 4 **Slight chance** in gloss and visible only when the lightsource is mirrored in the test surface on or quite near the mark and is refelcted towards the observer´s eye, or a few isolated marks just visible.
- 3 **Slight mark:** Visible in several viewing directions, for example almost complete disc or circle just visible
- 2 **Strong mark:** The structure of the surface being howevercver largely unchanged.
- 1 **Very strong mark:** The structure of the surface being changed or the surface material being totally or partially removed **or the filter paper adhering on the surface.**

Datum: 14.02.2018

Unterschrift: S.Zahn