

AQUENCE®

Aquence® 937™ Coating



Henkel's Aquence® 937™ coating delivers excellent corrosion performance for applications like vehicle frames, chassis components, automotive and general industrial parts.

Aquence® 937™ coating provides a high gloss appearance while maintaining high levels of performance on Neutral Salt Spray (NSS) testing and automotive OEM cyclic corrosion tests. This epoxy-acrylic urethane coating has excellent thermal stability, top-coatability and flexibility.

Product Features & Benefits:

- Environmentally sustainable – no toxic heavy metals, very low VOCs (<0.03 lbs./gal.).
- Compliant with environmental regulations ELV, REACH, RoHS and WEEE.
- Lower maintenance requirements – no ultrafiltration, no rectifiers, no electrodes, fewer stages.

Process/Application Advantages:

- Unlimited throwing (wetting) power with uniform coverage.
- Coats fully assembled parts.
- Inside and outside part protection.
- No electrical contacts required.
- No special rack stripping required.
- Lower energy costs.
- Lower applied costs.

Excellent Physical Properties:

- Uniform high gloss appearance.
- Excellent cyclic corrosion protection.
- Heat stability.
- Excellent flexibility and impact resistance.
- Hard coating.

Aquence® 937™ Coating Film Properties

TEST	PERFORMANCE
Film Thickness (Mils)	0.8 – 1.0 (20 – 25 µm)
Cross Hatch Adhesion	No Failure
Gloss @ 60°	> 60 @ 60°
Pencil Hardness	≥ 2H
Color	Black
Reverse Impact	80 in. -lb.

Aquence® 937™ Coating Anti-Corrosion Properties

TEST	PERFORMANCE
	Average Scribe Creep
504 Hours NSS, ASTM™ B-117	3 mm Total Creep
30 Cycles SAE™ J 2334	3 mm Total Creep
240 Hours Humidity, D1735	No Corrosion, Blistering or Adhesion Loss 120 Hours Water Soak
120 Hours Water Soak, FLTM-BI-104-01	No Adhesion Loss

The information contained herein is based on information believed by Henkel to be accurate at the date of publication. No guarantee of performance is given. Additional information and **ASSISTANCE MAY BE OBTAINED BY CONTACTING HENKEL CORPORATION.**

Product Line Support

Henkel's Aquence® coatings team is made up of chemists, engineers, application specialists, and pilot plant facilities that can assist you in the evaluation, design, and installation of autodeposition coating processes. For more information, please contact the Henkel Aquence® Coatings Group at 1.866.332.7024 in the U.S., 1.905.814.6511 in Canada, or visit www.aquencecoatings.com.

Autodeposition Application Benefits

Compared to conventional coating operations, autodeposition:

- Requires significantly less manpower and equipment, less cycle time, energy, handling, packaging and transportation.
- Can be used in a combined cure sequence with some topcoats due to low VOCs in the Aquence® coating.
- Is self-limiting – cannot be over-applied.
- Provides uniform coating thickness on all part surfaces, including edges and complex shapes – no drips, runs or sags.

“Where it wets, it coats” is a familiar attribute of the autodeposition coating process. The process uniformly coats the inside, outside, and edges of complex shapes and tubular structures, increasing corrosion resistance on the most corrosion-prone part locations. The performance, application and process benefits translate into a more flexible supply chain with lower total cost. That's why Aquence® is “The Smart Coating Solution.”

Application Information

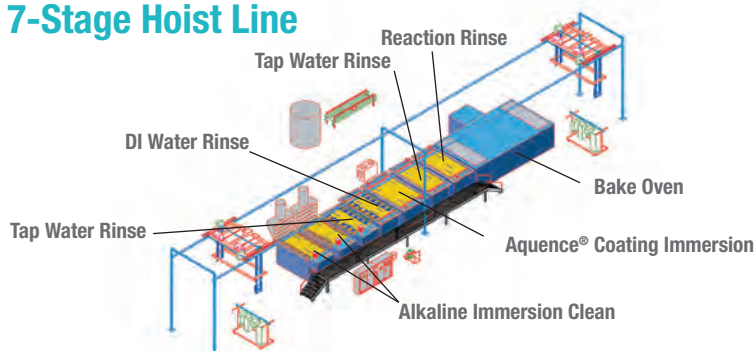
Application Equipment: Autodeposition coatings are applied with common industrial cleaning methods followed by a three-step immersion coating process using hoist or conveyor systems.

- Typical cure schedule for Aquence® 937™ coating with the E2 Reaction Rinse is a two-zone oven with zone one for 10 minutes at 150°F to 165°F (65°C to 75°C) and then a second zone for 20-30 minutes at 325°F to 375°F (163°C to 191°C), metal temperature.
- VOCs: Less than 0.03 pounds per gallon minus water (as calculated based on U.S. EPA Method 24).
- Hazardous Air Pollutants: None.
- Hazardous Heavy Metals: None in coating or process chemistry.
- A Henkel representative can assist you in the evaluation of products, process parameters and cure schedule.



Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071
U.S.A.
1.866.332.7024
www.aquencecoatings.com
www.henkeln.com/automotive
email: a.coat@us.henkel.com

Typical 7-Stage Hoist Line



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