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AQUENCE<sup>®</sup>

**Coating Technology**

# OEM Specifications Met By A - Coat

<u>OEM</u>	<u>Product</u>	<u>Spec/Approval Number</u>
DaimlerChrysler	AQ 866	PS-6061, PF 9968, PS 50025
General Motors	AQ 866	GM 998-4132
Ford Motor Co	AQ 866	WSS-M2P177, WSS-M2P187 ESB-M64J27, WSS-M2P-190
Nissan	AQ 866	M5083
Honda	AQ 866	HES D 2021 Grade 1-4
Toyota	AQ 866	THS2354
Hyundai	AQ 866	MS-630-17
JCI	AQ 866	MEPM-PLUS-SP-04-07-05-E
Lear	AQ 866	Approved
Tenneco	AQ 866	PS 152-03
International Truck	AQ 866	CEMS G-5 Grade 32
Steelcase	AQ 866	Approved
Herman Miller	AQ 866	Approved
Caterpillar	AQ 866	Approved
John Deere	AQ 866	Approved
New Holland	AQ 866	Approved
Delphi	AQ 866	ESM IJ 001



# A-Coat Performance

## Autophoretic<sup>®</sup> Performance Comparison

TEST	A COAT - AUTOPHORETIC <sup>®</sup> 800 SERIES	E COAT - *ELECTROCOAT
RESIN TYPE	PVDC	EPOXY
FILM THICKNESS (MILS)	0.5 - 1.0	0.6 - 1.0
CROSS HATCH ADHESION	NO FAILURE	NO FAILURE
GLOSS @ 60°	5-10	30-60
PENCIL HARDNESS	4-7H	H-3H
REVERSE IMPACT	120- 160 IN-LBS. (0.5-0.7MILS)	40 - 80 IN-LBS.
MANDREL TEST (GM9503P)	10	2
STONE CHIP (-30° C)	PASS	PASS
HUMIDITY (1,000 HOURS)	NO FAILURE	NO FAILURE
WATER IMMERSION (240 HOURS)	PASS	PASS
GM 9540P SCRIBE (3MM MAXIMUM CREEP)	40 cycles	32 - 40 cycles
SAE J2334 SCRIBE (3MM MAXIMUM CREEP)	40 cycles	40 cycles
NEUTRAL SALT SPRAY NO SCRIBE (<10% RUST)	>1000 HOURS	>1000 HOURS
TEMPERATURE RESISTANCE	<250°F **	425°F
CURE TEMPERATURE	220°F	325 - 375°F
VOC (EPA REFERENCE METHOD 24)	NONE DETECTED	<0.6 lbs/gal



# Aquence® Coatings

## Automotive Market Applications

Structural	Suspension	Engine / Drive Train	Interior	Others
Engine Cradles	Shock Absorbers	Motor Mounts	Seat Frames	Head Lamp Bezels
Rear Cradles	McPherson Struts	Battery Tray	Seat Tracks	Brake Backing Plates
Chassis Frames	Control Arms	Dust Cover	Foot Pedals	Steel Wheels
Cross Ties	Lateral Arms/ Trailing Links	Brake Booster	Door / Window Frames	Stamped Hinges
Bumper Insert Rails	Coil Springs	Axles	Steering Links / Columns	Small Parts - Bolts
Trailer Hitches	Top Mounts	Drive Shaft	Safety / Restraint Parts	Lift Jacks



# Technology Benefits

Aquence 866®

## Benefits

- Cost Savings
  - **15 – 20 % cost savings in application**
- Coats Full Assemblies
  - Ability to coat working Assemblies
  - Lowers inventory requirements
  - Eliminates masking
- Throw Power, Inside Coverage
  - Virtually Unlimited Throw-power
  - Coverage prevents “Inside-Out” Corrosion



# Technology Benefits

Aquence 866®

## Benefits

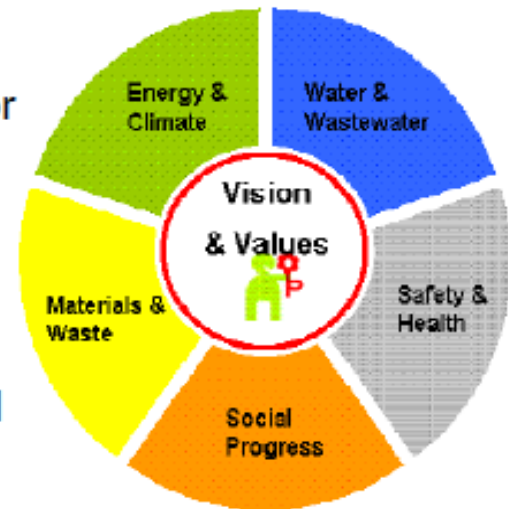
- Edge Coverage
  - Consistent coating thickness around edges
- Eliminates bridging
  - Threads do not have to be masked
  - No runs or sags
- Tough and flexible coating
- Low coefficient of friction value – less resistance for moving parts



# AQUENCE® - It's A Green Technology

Henkel

- Aquence Coatings are environmentally responsible
  - Very Low Volatile Organic Compounds (VOC) and eliminates hazardous air pollutants (HAPs)
  - Alkyl Phenol Ethoxylates (APE) free
  - Compliant to various regulatory directives or registrations: RoHS, ELV and WEEE
  - No toxic heavy metals as supplied
- Significant process improvements
  - Decreased energy consumption
  - Simplify wastewater treatment and disposal
  - Smaller equipment footprint



# Certifications

## ABS Quality Evaluations

### Certificate Of Conformance

This is to certify that the Quality Management System of:

**Steelcote Incorporated**  
 215 Eastview Drive  
 Brooklyn Heights, OH 44131  
 U.S.A.

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:

**ISO 9001:2015**

The Quality Management System is applicable to:

**CUSTOM AUTOPHORETIC COATING OF STEEL PRODUCTS**

This certificate may be found on the ABS QE Website ([www.abs-qe.com](http://www.abs-qe.com)). For certificates issued in the People's Republic of China information may also be verified on the CNCA website ([www.cnca.gov.cn](http://www.cnca.gov.cn)).

Certificate No: 38909  
 Certification Date: 13 May 2010  
 Effective Date: 01 April 2019  
 Expiration Date: 30 April 2022  
 Revision Date: 01 April 2019

*Dominic Townsend*  
 Dominic Townsend, President



Validity of this certificate is based on the successful completion of the periodic surveillance audits of the management system defined by the above scope and is contingent upon prompt, written notification to ABS Quality Evaluations, Inc. of significant changes to the management system or components thereof.

ABS Quality Evaluations, Inc. 1701 City Plaza Drive, Spring, TX 77388, U.S.A.  
 Validity of this certificate may be confirmed at [www.abs-qe.com/cert\\_validation](http://www.abs-qe.com/cert_validation).

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THIS CERTIFIES THAT

## Steelcote, Inc.

\* Nationally certified by the: **OHIO MINORITY SUPPLIER DEVELOPMENT COUNCIL**

\*NAICS Code(s): **332812, 332999, 332813**

\* Description of their product/services as defined by the North American Industry Classification System (NAICS)



**NMSDC**  
National Minority Supplier  
Development Council

04/21/2021

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**Issued Date**

04/30/2022

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**Expiration Date**

CN04128

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**Certificate Number**

*Joe Turbanic*  
NMSDC Board Chair

*Jacqueline Neal*  
**Jacqueline Neal, President & CEO**

By using your password (NMSDC issued only), authorized users may log into NMSDC Central to view the entire profile: <http://nmsdc.org>

Certify, Develop, Connect, Advocate.

\* MBEs certified by an Affiliate of the National Minority Supplier Development Council, Inc.®





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