

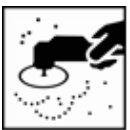
Autowave 2.0 Basecoat

Autowave MM 2.0 waterborne basecoat provides excellent coverage, metallic control and sprayability when used to duplicate OEM solid, metallic, and pearl effect colors. Autowave MM 2.0 must be used in conjunction with a specified Sikkens clearcoat to provide protection from the environment. Autowave MM 2.0 is the superior choice to achieve an optimal color match.



Safety Considerations

- Use suitable personal protection.
- When exposed to paint or solvents AkzoNobel recommends the use of a fresh air supply respirator.



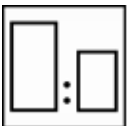
Surface Preparation

- Complete Panel
 - Sand with P500 to P600 dry or P600 to P800 wet
- Color Blend Area
 - P1000 on an interface pad and D/A sander or de-gloss using a gray scuff pad.



Mixing – Preparation

- Gently shake toner before each color pour
- Stir completed formula color before reducing



Mix
100
10 – 30

By Volume
Parts Autowave Color
Parts Activator WB

STICK # 1

✓ Refer to the TDS for detailed mixing guidance



Spray-Gun Set-Up

- 1.3 – 1.4mm HVLP Gravity
- 1.3 – 1.4mm Compliant

Application Air Pressure

- HVLP – 10 psi (<0.7 bar) at cap maximum
- Consult manufacturer specifications

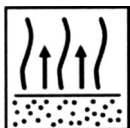


Application Solid Colors

- 2 to 3 x 1 coats

Application Effect Colors

- 2 to 3 x 1 coats
- Apply orientation coat, if needed

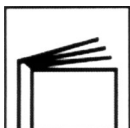


Flash Between Coats at 70°F (21°C)

- Until matte

Flash at 70°F (21°C) Before Clearcoat

- 15 minutes



Recoat With

- Sikkens clearcoats listed in the *Recoating* section of the Autowave 2.0 TDS

Read the complete TDS and the product Safety Data Sheet (SDS) for detailed product information.

Description

Autowave MM 2.0 waterborne basecoat provides excellent coverage, metallic control and sprayability when used to duplicate OEM solid, metallic, and pearl effect colors. Autowave MM 2.0 must be used in conjunction with a specified Sikkens clearcoat to provide protection from the environment. Autowave MM 2.0 is the superior choice to achieve an optimal color match.

Suitable Substrates



- OEM finishes
- Stable existing finishes
- Sikkens primer surfacers and sealers
- Do not apply over thermoplastic acrylic lacquers
- Do not apply directly over acid containing washprimers or pre-treatments

NOTE: Autowave 2.0 is not suitable for application directly to e-coat.

Products and Additives

Product	<ul style="list-style-type: none"> • Autowave MM 2.0 	– Per color formula
Hardeners	<ul style="list-style-type: none"> • WB Hardener 	– Item #553737
	– WB Hardener is suitable for use in Autowave 2.0. The addition of 5% is sufficient to improve system robustness including stone chip resistance, adhesion, and system hardness. WB Hardener is also recommended when multi-layer systems are applied and the recommended layer thickness is exceeded	
Activators	<ul style="list-style-type: none"> • Activator WB • Activator WB Dispenser Bottle 	<ul style="list-style-type: none"> – Item # 609978 (gallon) – Item # 2015653
Additives	<ul style="list-style-type: none"> • Autowave Additive LP <ul style="list-style-type: none"> ○ Used to extend the pot life of Autowave 2.0 (MM338 metallic colors) 	– Item #391192 (liter)

○ SDS and TDS for products available online at – <http://my.anaac.net/>

Basic Raw Materials



- Autowave
- WB Hardener
- Activator WB
- Autowave Additive LP
- Water based acrylic dispersion
- Polyisocyanate resins
- Water / glycol mixture
- Special chemical blend

Autowave 2.0 Basecoat

FOR PROFESSIONAL USE WITH SUITABLE HS&E EQUIPMENT

Substrate Preparation



Precleaning

- If needed, prewash the repair with warm soap and water. Rinse completely with clean water
- Clean the substrate with the appropriate AkzoNobel / Sikkens waterborne and solventborne surface cleaners



Sanding Preparation

Existing Finishes Dry

Repair Area

Blend Area

- Initial - #P360-P400
- Final - #P500-P600

- Sand with P1000 on an interface pad and D/A sander.

Existing Finishes Wet

- Initial - #P360-P400
- Final - #P600-P800

- Abrade using a gray scuff pad and a quality scuffing paste with water.

NOTE: Autowave 2.0 is not suitable for application directly to e-coat.



Surface Cleaning – Prior to Paint Application

- Clean with the appropriate AkzoNobel / Sikkens waterborne and solventborne surface cleaners

Product Agitation



Color Preparation

- Shake paint on a paint shaker or vigorously by hand for 45 seconds before first use
- For metallic, pearl or effect toners, also stir the mixing color before first use
- Gently shake the Autowave toner before each pour
- Once all the toners in a formula have been combined, stir the paint prior to reduction and then stir again after the Activator WB has been added



Mixing Color Formulas and Products



Formulas

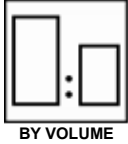
- Formulas are available to match the most popular OEM colors. These are available in MIXIT
 - Ensure when a specified primer color is suggested to use that shade of undercoat primer
 - For easy mixing of color formulas or products, final mixing including hardening, reduction and the addition of additives can be done through MIXIT

Custom Mixed Colors

- Solid colors can be made with solid MM toners and do not require additional binder
- For straight metallic colors (no solid toners), mix 60 parts MM800 toner with 40 parts of MM600

Note: When mixing metallic colors, please follow the recommended mixing directions. This will ensure that the material will function as intended and not produce any unanticipated results.

Mixing



Mix
100
10 – 20

Standard Mix
 Parts Autowave 2.0 Color Formula
 Parts Activator WB

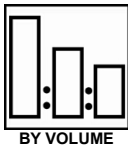
- Add 20-30 parts Activator WB for Autowave 2.0 colors that are sensitive to cloudiness/mottling and/or difficult to blend



Mix
100
5

Extending MM338 Metallic Colors Potlife
 Grams unreduced Autowave 2.0 Color Formula containing MM338 metallic toners
 Grams Autowave Additive LP

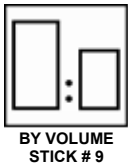
- Stir together and then reduce as normal
- Do not use Autowave Additive LP in solid colors or in mixtures containing WB Hardener



Mix
100
10
10

Underhood Mix
 Parts Autowave 2.0 Color Formula
 Parts WB Hardener (stir to combine)
 Parts Activator WB (stir to combine)

If improved system robustness including stone chip resistance, adhesion and system hardness is desired, Autowave basecoat may be mixed with WB Hardener before reduction.

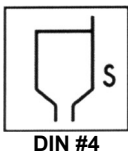


Mix
100
5

Hardened Basecoat Mix
 Parts Autowave 2.0 Color Formula
 Parts WB Hardener

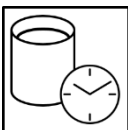
- Stir together and then reduce as normal

Viscosity – Ready to Spray at 70°F (21°C)



- Autowave 2.0 – 20-30 Seconds

Potlife When Mixed at 70°F (21°C)



Normal Product Mixes

- Autowave 2.0 solid and pearl mixed colors – 3 months
- Autowave 2.0 colors containing MM338 metallic toners – 1 week
- Autowave 2.0 colors containing MM338 metallic toners with Additive LP – 3 months
- Autowave 2.0 MM338 metallic colors containing toner MM700 – 1 day

Product Mixes with WB Hardener

- Autowave 2.0 solid and pearl mixed colors – 1-½ hours
- Autowave 2.0 pearl and solid colors containing 50% or more AW245 – 1 hour
- Autowave 2.0 colors containing MM338 toners – 30 minutes

Equipment Set-Up

Consult spray gun manufactures instructions for specific spray gun pressure specifications.



Spray Gun	Fluid Tip	Application Pressure
HVLP Gravity Feed	1.3 – 1.4 mm	<10 psi (0.7 bar) at cap
Compliant Gravity Feed	1.3 – 1.4 mm	psi per spray gun manufacturer
Paint Strainers	✓ Use waterborne suitable 125-micron paint strainers	

Application



Application – Solid Colors

- Apply 2 medium coats or until opacity is achieved
 - Autowave MM245 applied as pure color can be applied in 2 single layers with flash-off between coats as well as by 2 light wet coats wet-on-wet
- Use increased airflow to flash off between coats until matte in appearance
 - When force drying using a windjet or equivalent equipment, keep a minimum distance of 3 feet



Metallic Color Application

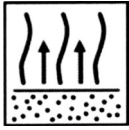
- First, apply a closed wet coat. Next, apply intermediate coats, ≈80% as wet as the first coat, until coverage is achieved. Flash dry between coats until the basecoat dries completely to a matte finish
- Apply optional orientation coat –
 - Increase the distance to approximately 12 to 14 inches and apply a damp coat with no wet areas. The finish should look like “satin” when completed



Spot Repair Application

- Autowave MM666 / MM600 (mixed 60:40) may also be used as a clear foundation coat before commencing metallic spot repairs. Reduce 10-20% with Activator WB and apply one thin closed coat of this blending foundation to allow for an easier metallic orientation
- When making spot repairs apply thin color coats until opacity is achieved extending the area slightly with each coat. Dry until matt between each coat before fading out
- Metallic colors may require air pressure adjustments for the best color match
- Finally apply 1-2 orientation coats fading out well beyond the coverage coats
- In the case of high hiding colors and fading out, the color transparency can be increased by adding reduced MM666 to the ready to spray (RTS) mixed color prior to blending, at a ratio of 100 parts RTS color with 50 parts RTS MM666

Flash Drying



Flash Between Coats at 70°F (21°C)

- Until matte

Flash at 70°F (21°C) Before Clearcoat

- 15 minutes

- Flash time will be dependent on ambient temperature, humidity, applied paint wetness/thickness and available airflow
 - Flash can be reduced to a minimum by using air accelerator systems at approximately 3 feet (≈1m) from the repair and increasing the airflow across the repair
 - Introducing heat is also an option. When heat is used for drying, allow object to cool down to application temperature before proceeding with color or clearcoat application
- Maximum flash time is 24 hours at which time the basecoat must be abraded and color reapplied

Autowave Underhood Mix - Flash Drying and Cure



Flash Between Coats at 70°F (21°C)

- Until matte

Final Flash at 70°F (21°C) Before Force Dry

- 20-30 minutes

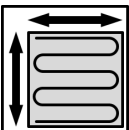
- After final flash, can be force dried at 140°F (60°C) object temperature

Film Thickness – Using Suitable Application



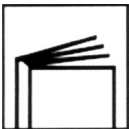
- 1 Coat will achieve a thickness of 0.4 – 0.9mils (10.2 – 22.9μm) dry
- The maximum total thickness is 1.2 mils (30.5μm). If this maximum will be exceeded, the hardened basecoat mix should be used

Theoretical Coverage



- With the recommended application the theoretical material usage is ±256 feet²/gallon (6.3 m²/liter) at a 1 mil thickness (25.4μm) and 100% transfer efficiency
- Actual coverage is dependent on many factors. These may include the shape of the object, surface smoothness, application technique and other variables

Recoating



After the stated dry time Autowave 2.0 may be recoated with the following materials:

- | | |
|---------------------------------|------------------------|
| • Autoclear Performance LV | • Autoclear 2121 LV |
| • Autoclear Superior 250 2-Pack | • Autoclear Mix & Matt |
| • Autoclear Energy-Select LV | • Autoclear PC |
| • Autoclear HS+ 2 Pack | • Autoclear Xpress |

What to Do



Fisheyes / Craters

- Fisheyes may be caused by silicone or other contamination. In that event, apply mist coats of basecoat over the contaminated area and proceed with the repair allowing longer flash times. If severe, it may be necessary to allow a dry time of 20-30 minutes, sand, and continue to spray basecoat
- Adding Anti-Silicon to basecoat is not recommended

Second Repair

- If during the application of basecoat color, some damage occurs such as dust impregnation or perspiration spots, allow the basecoat to flash off for 20 minutes at 70°F (20°C)
- Lightly sand the damaged area with #P600 grit paper dry. Care must be taken to clean up all sanding residue
- Reapply color to the affected area as needed

Two-Tone Masking

- Autowave colors can be taped (i.e., two-toning) after 20 minutes flash-off at 75°F (24°C)
- Increasing temperature, especially in combination with air movement, improves the ability to apply masking. If heat is used let the object cool down to ambient temperature before masking

Cleaning of Equipment



- Clean equipment and dispose of waste following local and federal regulations
- Clean and rinse the spray gun thoroughly after use with water from a squirt or spray bottle
- Finish cleaning with Autowave Gun Cleaner
 - Do not use any conventional thinner unless removing dried waterborne paint deposits
 - Do not soak the spray gun for long periods either with Autowave Gun Cleaner or WB Activator
- Purge the spray gun with Autowave WB Activator and blow dry as a final step

VOC / Regulatory Information



Product

- Autowave 2.0 (Ready to spray)

VOC Pounds per Gallon

– <3.50

VOC Grams per Liter

– <420

- Do not handle until the Safety Data Sheets have been read and understood. Regulations require that all employees be trained on Safety Data Sheets for all chemicals with which they come in contact. The manufacturer recommends the use of an air-supplied respirator when exposed to vapors or spray mist

Product Storage



- Store unopened, or products in use with approved closed containers and proper labeling. Store in moderate temperatures between 40°F - 95°F (5°C – 35°C). Avoid too much temperature fluctuation. Optimum storage temperature is approximately 70°F (21°C)
- Refer to the Product Shelf-Life Overview TDS or the current price list for the most up-to-date shelf-life information



North America

Autowave 2.0 Basecoat

Technical Data Sheet

Basecoats

10/17/2025

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FOR PROFESSIONAL USE WITH SUITABLE HS&E EQUIPMENT

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Telephone: 800.618.1010

FOR PROFESSIONAL USE WITH SUITABLE HS&E EQUIPMENT

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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