



DRIVING SURFACE PERFECTION™

TECHNICAL DATA SHEET

Version: 3.0

MAXIMUM™ 4:1 CLEARCOAT



DESCRIPTION

Manufactured in Europe using high quality European resins, Maximum 4:1 Clearcoat gives a high build, crystal clear finish with exceptional gloss retention. It's easy to apply with excellent flow and non-sag properties and hardens rapidly to give a durable, UV resistant finish. Once cured it can be easily buffed.

- Can be used for spot or multi-panel repairs.
- Can be applied over most water and solvent borne basecoat paints
- Air dry or low bake.

TECHNICAL DATA



Substrates

- Manufacturers basecoat, solvent or waterbased
- OEM finishes

	Base	Mixed
Viscosity		19 - 23 s/ ZAHN#2
Solid content	33.00%	31.60%
Specific gravity	0.914 g/cm ³	0.917 g/cm ³

APPLICATION GUIDE



Tools Required

- SYSTEM 20 Solvent/Water based Degreasers
- MAXIMUM™ HVLV Gravity Gun
- MAXIMUM™ Tack Cloth
- P1000-P1500 Grit Sandpaper
- MAXIMUM™ Personal Protective Equipment (see SDS for more information)

Activator Selection

Temperature °F	Activator
80 - 95 °F	MXM31 MAXIMUM™ Slow Activator
50 - 85°F	MXM30 MAXIMUM™ Standard Activator
> 85°F	MXM30 + 10% Reducer*

*addition of a Reducer such as **U-POL SYSTEM 20 UP2462** or **UP2481** may affect the applied VOC value. Please check local VOC regulations.



Substrate Preparation

Dry waterbased or solvent based basecoat to the manufacturers instructions.

For best results, good preparation is essential:

Clean and degrease removing dirt, oil, grease and wax with a cleaning solution, like **UP2002 SYSTEM 20 Water Based Degreaser** or **UP2012/UP2022 SYSTEM 20 Solvent Based Degreasers** (please check local VOC regulations).

Prepare original cured paint: wet sand with P1000 - P1200 or dry sand with P1000.

Re-clean, degrease and dry the abraded substrate. Use a MAXIMUM™ Tack Cloth immediately prior to application.



Mixing Ratio

MXM80 : Activator

Standard Application

4:1 parts by volume

May be reduced by up to 10% - please see VOC information

Final Volume	Weight of Clearcoat	Weight of Activator	
		MXM30	MXM31
250ml / 8.5 FL OZ	183 g	47 g	49 g
500ml / 17 FL OZ	365 g	93 g	99 g
750ml / 25 FL OZ	548 g	140 g	148 g
1000ml / 34 FL OZ	731 g	186 g	197 g



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Viscosity ZAHN#2 / sec 19 - 23 seconds
 Working Pot-Life @ 68°F 7 - 8 hours



Compliant HVLP Gravity Gun
 Gun tip size 1.2 - 1.4 mm
 Air Pressure at the gun 2 bar (29 PSI)



Coats 2 coats
 Film Build 40 µm (1.5 MIL) total dry film thickness
 Theoretical Coverage* approx. 71 ft²/liter (67 ft²/quart)
 335 ft²/gallon + quart kit

*Theoretical Coverage assuming 100% transfer efficiency and giving the dry film thickness between indicated values.



Flash-off @ 68°F
 Between coats 2 - 5 minutes



Drying Times
 Tack free @ 68°F < 20 minutes
 Through dry @ 68°F 16 hours
 Through dry @ 140°F 30 minutes

Overcoating

Less than 20 hours No abrasion required
 More than 20 hours P1000-P1200



Polishing
 Ready to polish @ 68°F 16 - 24 hours
 Ready to polish @ 140°F Approximately 1 hour after cool down of object to ambient temperature from bake cycle.
 De-nib For dirt removal, lightly sand/denib with P1500 abrasive paper and compound.

STORAGE & VOC INFORMATION



Shelf Life 2 years from date of manufacture in sealed original containers.
Recommended Storage Temperature 40°F - 75°F
Recommended Application Temperature As per the Activator Selection table above.
Equipment Cleaning Clean gun immediately after use with SYSTEM 20 reducer or gunwash. Please check local VOC regulations.

Important Remarks Do not use activated product beyond pot life.
 Activated material should not be returned to the original can of non-activated material.

VOC Information

	MXM80 As Packaged	
VOC Regulatory	536 g/l	4.5 lb/gal
VOC Actual	375 g/l	3.1 lb/gal
Percent Solids	33% by weight	27.4% by volume
Volatiles	67% by weight	
Water	0% by weight	0% by weight
Exempt compounds	26.0% by weight	30.1% by volume
HAPS	25.0% by weight	
Density	914 g/l	7.6 lbs/gal




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	MXM80 As Applied when mixed 4:1 with MXM30		As Applied when mixed 4:1 with MXM31	
				
VOC Regulatory	576 g/l	4.8 lbs/gal	585 g/l	4.9 lbs/gal
VOC Actual	438 g/l	3.6 lbs/gal	445 g/l	3.7 lbs/gal
Percent Solids	31.6% by weight	26.3% by volume	31.6% by weight	26.7% by volume
Volatiles	68.4% by weight		68.4% by weight	
Water	0% by weight	0% by weight	0% by weight	0% by weight
Exempt compounds	20.7% by weight	24.1% by volume	20.5% by weight	24.1% by volume
HAPS	34.0% by weight		20.6% by weight	
Density	917 g/l	9.1 lbs/gal	928 g/l	7.7 lbs/gal

4:1 mix may be reduced up to 10%. **Please note:** addition of additives such as reducers may increase the VOC content of the applied mixture. Please check your local VOC regulations to ensure compliance. Alternatively, use "zero-VOC" additives.

REORDER CODE

Order Code	Size	Product
MXM80	1 US GAL Tin	MAXIMUM™ 4:1 Clearcoat
MXM30	1 QT Tin	MAXIMUM™ Standard Activator
MXM31	1 QT Tin	MAXIMUM™ Slow Activator
UP2462	5L Tin	SYSTEM 20 Multifunctional Slow Reducer
UP2581	5L Tin	SYSTEM 20 2.1 VOC Fast Reducer
UP0430	Box	MAXIMUM™ Tack Cloths
UP0431	Dispenser	MAXIMUM™ Tack Cloths
UP2002	5L Canister	SYSTEM 20 Waterbased Degreaser
UP2012	5L Canister	SYSTEM 20 Solvent-Based Fast Degreaser
UP0323	Gun	MAXIMUM™ HVLP Gravity Spray Gun 1.3 mm Tip
UP0324	Gun	MAXIMUM™ HVLP Gravity Spray Gun 1.4 mm Tip
UP0420	M	MAXIMUM™ Painters Overalls
UP0421	L	MAXIMUM™ Painters Overalls
UP0422	XL	MAXIMUM™ Painters Overalls
UP0423	XXL	MAXIMUM™ Painters Overalls
UP0424	XXXL	MAXIMUM™ Painters Overalls
UP0407	FFP2 & NIOSH N95	MAXIMUM™ Premium Masks

IMPORTANT: FOR PROFESSIONAL USE ONLY. Read full instructions before use.

This product contains hazardous materials and therefore appropriate personal protective equipment should always be used. Please refer to the label and consult the safety data sheet for full handling instructions and personal protection information. U-POL disclaims any liability where the user does not wear the recommended personal protective equipment. The above data is for information only and may change without prior notice. It is the Buyers responsibility to ensure the suitability of the products for their own use and check the information is up to date. The recommendation of use of our products and application in our technical data sheets are based on our knowledge and experience. These data sheets are available via your local distributor or via the U-POL website at WWW.U-POL.COM. U-POL is not responsible for the results obtained by others over whose methods we have no control and thereof U-POL is not liable for consequential or incidental damages including loss of profits.

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