MPC182

High Performance Clear

6178SP

6178SP High Performance Clear is a premium-quality 3.5 VOC high gloss clear which offers outstanding chemical and graffiti resistance.

6178SP produces an unsurpassed hard, durable finish with excellent gloss, scratch & chemical resistance and DOI.

Features:	Benefits:
• Graffiti resistant	• Quick graffiti removal
• Chemical resistant	• Can be exposed to many different environments
• High impact, mar, and abrasion resistance	• No loss of gloss in adverse environmental conditions
• Submersible	• Impervious to chlorine & other harsh chemicals
• 3.5 VOC	• High Solids

Compatible Surfaces:

6178SP High Performance Clear may be applied over:

- MAP®
- Satin MAP®
- VOC MAP®
- SVOC MAP®

Warning:
Cannot be applied directly over 74 777SP Tie Bond or 74 793SP Spray Bond. If Tie Bond or Spray Bond is used, apply one coat of conventional clear then apply High Performance Clear.

Required Products:

Catalyst	
6278SP High Performance Catalyst	
Reducers	
6378SP-F	HP Clear Reactive Reducer - Fast, 60 - 75°F (16 - 24°C)
6378SP-M	HP Clear Reactive Reducer - Medium, 70 - 85°F (21 - 29°C)
6378SP-S	HP Clear Reactive Reducer - Slow, 80°F (27°C) & above

6178SP

Directions for Use

Surface Preparation:

Substrate should be prepared according to product instructions prior to clearcoat application.

Mix Ratio:

Mix Ratios (by volume)

6178SP High Performance Clear	:	6278SP High Performance Catalyst	:	6378SP-F, 6378SP-M or 6378SP-S Reducer
1 part	:	1 part	:	1/2 part

1/2 part of any of the Reactive Reducers must be added to obtain performance properties and to maintain 3.5 VOC.

		VOC
Potlife 75°F (24°C) / 50% Humidity:	2 hours with 6378SP-F	7.33
	3 hours with 6378SP-M	7.41
	4 hours with 6378SP-S	7.43

Reducers:

HP Clear Reactive Reducers:

6378SP-F	Fast, 60 - 75°F (16 - 24°C)
6378SP-M	Medium, 70 - 85°F (21 - 29°C)
6378SP-S	Slow, 80°F (27°C) & above

Additives:

None

Spray Set Up:

Air Pressure:	Conventional:	55 - 60 psi at the gun
	HVLP:	10 psi at the cap
	Pot Pressure:	15 - 18 psi
Gun Set Up:	Siphon Feed:	1.4 mm - 1.8 mm 0.055 fluid tip
	HVLP:	1.4 mm - 1.7 mm 0.055 fluid tip (fluid delivery 12 - 14 oz./min.)
	Pressure Pot:	1.2 mm 0.046 fluid tip

Application:

Apply:	2 – 3 medium coats Flash 15 - 20 minutes minimum between coats.
Recommended Wet Film Thickness:	1.6 to 1.8 mils per coat
Recommended Dry Film Thickness:	1.5 to 2.5 dry mils

Caution: All 2 component cross-linking stops or slows significantly at temperatures below 60°F (16°C). Never spray or subject freshly painted coatings to these conditions or loss of gloss, poor water and chemical resistance, decreased durability and improper curing will occur.

Directions for Use

Drying Times:

Dry Times at 75°F (24°C)

	w/6378SP-F	w/6378SP-M	w/6378SP-S
Out of dust:	20 minutes	35 minutes	1 hour
Print free:	30 minutes	75 minutes	2.5 hours
Tape free:	2 hours	3 hours	5 hours
To Recoat:	4 hours*	6 hours*	8 hours*

* Hotter temperatures can shorten recoat window.

Note: *Hard to buff. Best if up to 24 hour cure, because coating gets hard quickly.*

Equipment Cleaning:

Clean up equipment promptly with 45 340SP Cleanz-It or an all-purpose clean up solvent.

Do not leave mixed material in equipment.

Technical Data:

VOC Information	
6178SP High Performance Clear	3.52
6278SP Catalyst	2.11
Reactive Reducers	7.33 – 7.43 (Less exempts)
VOC (RTS)	F-3.37 (Less exempts) M-3.38 (Less exempts) S-3.38 (Less exempts)
Performance Characteristics	
Volume solids (RTS)	47.71%
Weight solids (RTS)	54.83%
Pencil Hardness	2H
Gloss	90°+
Gloss Retention (1000 hrs. QUV)	100%
Humidity Resistance	100% adhesion, zero impact on gloss
Salt Spray	100% adhesion / no blistering
Chemical Resistance:	
30 Day Chlorine Immersion	Zero Impact
Gasoline Resistant (Drop Test)	Zero Impact
Diesel Fuel Resistant (24 Hr. Soak)	Zero Impact
Skydrol Resistant (24 Hrs. Soak @ 150°F)	Zero Impact
Tolulene Resistant	Zero Impact
Theoretical Coverage *(1 mil @ 100% transfer efficiency)*	765 sq.ft.
Application Conditions	60°F (16°C) Minimum 100°F (38°C) Maximum
Relative humidity	85% maximum 5° above dew point

Note*: All tests conducted after 168 hours or 7 days ambient dry time*

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Important:

The contents of this package may have to be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels of all components, since the mixture will have the hazards of all its parts. Improper spray technique may result in a hazardous condition. Follow spray equipment manufacturer's instructions to prevent personal injury or fire. Follow directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION - US (412) 434-4515; CANADA (514) 645-1320; MEXICO 01-800-00-21-400

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the general public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to Matthews Paint. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does Matthews Paint warrant freedom from patent infringement in the use of any formula or process set forth herein.
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