



# SYSTEM 20 HS SUPER CLEARCOAT (2:1)

UP2802

Version: 9.0 Date of issue: 01/01/2020 Revision date: 10/08/2020 Supersedes: 01/01/2020



DRIVING SURFACE PERFECTION

## TECHNICAL DATASHEET

SYSTEM 20 HS SUPER CLEARCOAT is a universal, water clear, ultra-high gloss coating.



- Good flow and non-sag properties.
- Hardens rapidly to give a high build UV resistant coating.
- Has excellent gloss and long term durability.
- Can be air dried, low baked or IR Cured.
- Can be easily polished once cured.

## APPLICATION INFORMATION



FOR PPE RECOMMENDATIONS REFER TO SDS

**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. Persons suffering from asthma or eczema and persons who have chronic lung diseases, skin or respiratory allergies to isocyanates should not work with the material.

### Components



Product	Order Code	Format	Color
SYSTEM 20 HS SUPER CLEARCOAT (2:1)	UP2802	5L Tin	Colorless
Hardener	Order Code	Format	Temperature ranges
SYSTEM 20 Fast Hardener	UP2307	250ml Tin	50 - 80°F
SYSTEM 20 Fast Hardener	UP2303	1L Tin	50 - 80°F
SYSTEM 20 Fast Hardener	UP2305	2.5L Tin	50 - 80°F
SYSTEM 20 Standard Hardener	UP2327	250ml Tin	60 - 90°F
SYSTEM 20 Standard Hardener	UP2323	1L Tin	60 - 90°F
SYSTEM 20 Standard Hardener	UP2325	2.5L Tin	60 - 90°F
SYSTEM 20 Slow Hardener	UP2333	1L Tin	70 - 100°F
SYSTEM 20 Slow Hardener	UP2335	2.5L Tin	70 - 100°F
SYSTEM 20 Extra Slow Hardener	UP2333XS	1L Tin	> 80°F
Reducer	Order Code	Format	Temperature ranges
SYSTEM 20 Fast Multifunction Reducer	UP2144	1 US Gallon Tin	50 - 80°F
SYSTEM 20 Standard Multifunction Reducer	UP2145	1 US Gallon Tin	60 - 90°F
SYSTEM 20 Slow Multifunction Reducer	UP2146	1 US Gallon Tin	70 - 100°F
Optional Additives	Order Code	Format	
SYSTEM 20 Rocket Paint Accelerator	UP0735	250ml Bottle	
SYSTEM 20 Fish Eye Eliminator	UP2001	250ml Bottle	

Using products outside of the recommended application temperature or mixing ratio may lead to surface defects or improper through-cure.

Please refer to additive technical data sheets for further use instructions.

### Mixing ratio



Standard Application	Volume	250 ml	500 ml	750 ml	1000 ml
SYSTEM 20 HS SUPER CLEARCOAT (2:1)	2	161 g	322 g	483 g	644 g
SYSTEM 20 Standard Hardener	1	82 g	164 g	246 g	327 g
Reduced	Volume	250 ml	500 ml	750 ml	1000 ml
SYSTEM 20 HS SUPER CLEARCOAT (2:1)	2	146 g	293 g	439 g	585 g
SYSTEM 20 Standard Hardener	1	74 g	149 g	223 g	298 g
SYSTEM 20 Standard Multifunction Reducer	10 %	20	40	60	81

Cumulatively mixing by grams will give the total indicated volume.

### Surface Preparation



**Substrate**  
Previously painted surfaces  
Freshly applied basecoat\*

**Degreaser**  
SYSTEM 20 Solvent/Water-Based Degreaser \*

**Abrasion**  
P1000 (wet or dry) \*

For best results, good preparation is essential. Clean and degrease removing dirt, oil, grease and wax with cleaning solutions such as U-POL's SYSTEM 20 Degreasers (please check local VOC regulations). Abrade with grit paper as stated above for each respective substrate. Re-clean, dry and degrease the abraded substrate ready for application. \*Before applying clearcoat, ensure the basecoat is prepared according to the manufacturer's technical data sheet.

### Gun Setup



**Standard Application**

**Gun Tip Size (HVLP)** 1.2 – 1.4 mm  
**Air Pressure at Gun (HVLP)** 2 bar

### Application



**Standard Application**

**Application Viscosity (Zahn #2)** 25 – 30 Seconds  
**Working Pot-Life at 70 °F** 2 – 3 hours

**Number of Coats** 2



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	<p><b>Flash-off at 70°F between coats</b> 5 – 10 minutes</p> <p><b>Total Dry Film Thickness</b> 40 µm / 1.5 MIL  <b>Theoretical Coverage @ 1 MIL DFT*</b> 606.4 ft²/gal  *Theoretical Coverage assuming total dry film thickness is attained at 100% transfer efficiency.</p> <p>Paint straining is recommended prior to application to remove any unwanted dust or debris.</p> <p>Use BLEND #9 Fade Out Reducer Aerosol for areas of the repair that require blending.</p> <p>Addition of SYSTEM 20 Fish Eye Eliminator to topcoats and clears will eliminate fish eyes and crater formation caused by silicone contamination.</p>
<p><b>Drying Time</b></p> 	<p><b>Standard Application</b></p> <p><b>Tack-Free at 70°F</b> 60 minutes  <b>Dust Free at 70°F</b> 60 minutes  <b>Dry-Through at 70°F</b> 12 – 14 hours</p> <p><b>Flash-off at 70°F prior forced drying</b> 5 – 10 minutes  <b>Dry-Through at 140°F</b> 30 minutes</p> <p>Add Rocket paint accelerator 2 – 3 % or 30 ml into 1 Litre hardener to reduce dry times by 30 – 50%</p>
<p><b>Recoating</b></p> 	<p><b>Standard Application</b></p> <p><b>Recoatable at 70°F after</b> ?  <b>Recoatable at 70°F within</b> ?</p> <p>This formulation can be recoated without sanding, if applied within the re-coat time. If the re-coat time has been exceeded, lightly scuff before recoat application.</p>
<p><b>Polishing</b></p> 	<p><b>Standard Application</b></p> <p><b>Ready to Polish at 70°F</b> 6 hours  <b>Ready to Polish at 140°F</b> 1 hour after cool down of object to ambient temperature from bake cycle.</p>
<p><b>Additional information</b></p> 	<p><b>Equipment Cleaning</b> Clean gun immediately after use with thinner or gunwash. Please choose gun-cleaner products which are VOC compliant in your area.</p> <p><b>Important Remarks</b> Activated material should not be returned to the original can of non-activated material. Do not use activated product beyond pot life</p>
<p><b>VOC Information</b></p> 	<p><b>Unmixed</b></p> <p><b>As Packaged Regulatory VOC</b> 527 g/l (4.4 lb/gal)  <b>As Packaged Actual VOC</b> 527 g/l (4.4 lb/gal)  <b>Percent Solids</b> 45.55 wt%  <b>Percent Solids</b> 39.98 vol %  <b>Volatiles</b> 54.4 wt%  <b>Water Content</b> 0 wt%  <b>Water Content</b> 0 vol %  <b>Exempt Compounds by weight</b> 0 wt%  <b>Exempt Compounds by volume</b> 0 vol %  <b>% EPA HAPS</b> 28.5 wt%  <b>Density</b> 965 g/l (8.0 lbs/gal)</p> <hr/> <p><b>Standard Application 2 : 1</b></p> <p><b>As Applied Regulatory VOC</b> 558 g/l (4.7 lbs/gal)  <b>As Applied Actual VOC</b> 558 g/l (4.7 lbs/gal)  <b>Percent Solids</b> 42.49 wt%  <b>Percent Solids</b> 37.51 vol %  <b>Volatiles</b> 57.5 wt%  <b>Water Content</b> 0 wt%  <b>Water Content</b> 0 vol %  <b>Exempt Compounds by weight</b> 0 wt%  <b>Exempt Compounds by volume</b> 0 vol %  <b>% EPA HAPS</b> 26.7 wt%  <b>Density</b> 971 g/l (8.1 lbs/gal)</p> <hr/> <p><b>Reduced 2 : 1 : 10 %</b></p> <p><b>As Applied Regulatory VOC</b> 588 g/l (4.9 lbs/gal)  <b>As Applied Actual VOC</b> 588 g/l (4.9 lbs/gal)  <b>Percent Solids</b> 38.93 wt%  <b>Percent Solids</b> 34.09 vol %  <b>Volatiles</b> 61.1 wt%  <b>Water Content</b> 0 wt%  <b>Water Content</b> 0 vol %  <b>Exempt Compounds by weight</b> 0 wt%</p>



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<b>Exempt Compounds by volume</b>	0 vol %
<b>% EPA HAPS</b>	27.9 wt%
<b>Density</b>	963 g/l (8.0 lbs/gal)

Keep only in the original container in a cool, well ventilated place away from : Ignition sources, Heat sources, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed.

**Recommended storage temperature** 41°F - 77°F

### Shelf Life & Storage



Product	Order Code	Format	Shelf Life
SYSTEM 20 HS SUPER CLEARCOAT (2:1)	UP2802	5L Tin	5 years
SYSTEM 20 Fast Hardener	UP2307	250ml Tin	2 years
SYSTEM 20 Fast Hardener	UP2303	1L Tin	2 years
SYSTEM 20 Fast Hardener	UP2305	2.5L Tin	2 years
SYSTEM 20 Standard Hardener	UP2327	250ml Tin	2 years
SYSTEM 20 Standard Hardener	UP2323	1L Tin	2 years
SYSTEM 20 Standard Hardener	UP2325	2.5L Tin	2 years
SYSTEM 20 Slow Hardener	UP2333	1L Tin	2 years
SYSTEM 20 Slow Hardener	UP2335	2.5L Tin	2 years
SYSTEM 20 Extra Slow Hardener	UP2333XS	1L Tin	2 years
SYSTEM 20 Fast Multifunction Reducer	UP2144	1 US Gallon Tin	5 years
SYSTEM 20 Standard Multifunction Reducer	UP2145	1 US Gallon Tin	5 years
SYSTEM 20 Slow Multifunction Reducer	UP2146	1 US Gallon Tin	5 years

### Associated Products



Product	Order Code	Format	Shelf Life
SYSTEM 20 Rocket Paint Accelerator	UP0735	250ml Bottle	5 years
SYSTEM 20 Fish Eye Eliminator	UP2001	250ml Bottle	5 years
BLEND #9 Fade Out Reducer Aerosol	UP0874	450ml Aerosol	5 years
SYSTEM 20 Water-Based Degreaser	UP2002	5L Canister	5 years
SYSTEM 20 Solvent-Based Fast Degreaser	UP2012	5L Tin	5 years
SYSTEM 20 Solvent-Based Slow Degreaser	UP2021	1L Tin	5 years
SYSTEM 20 Solvent-Based Slow Degreaser	UP2022	5L Tin	5 years
HVLP Gravity Gun 1.3mm tip	UP0323	1-pack	-
HVLP Gravity Gun 1.4mm tip	UP0324	1-pack	-

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