



# AquaShield 076

(with Flash Dry Technology)

## Product Bulletin

Royal Aqua Shield 076 is the fastest drying direct to metal coating on the planet. Formulated using Royal's proprietary Flash Dry Technology it dries faster than competitive solvent based products even though it is Water based with Zero VOCs. This product is selected when dry time is the most important property. In addition to its outstanding protection properties, it significantly reduces the hazards of working with volatile compounds found in other VOC coatings. Royal AquaShield 076 cannot ignite and because it does not create any toxic vapors, the odor, headaches, and nausea often associated with other coatings are completely eliminated. Royal AquaShield 076 provides greater corrosion resistance for metals and greater health protection for workers.

**WEATHERING**

2 mil DFT

100 Salt Fog HRS

- FEATURES**
- ZERO VOC
  - EXCELLENT HARDNESS
  - FASTEST DRY AVAILABLE
  - SURFACE TOLERANT
  - WIDEST APPLICATION TEMPERATURE RANGE (37F – 120F)
  - No Hazardous Waste Generation

**PHYSICAL DATA**

Colors	Custom Colors Available
Finish	Gloss
Components	1
Packaging	<u>5,000 Gal Bulk</u> <u>275 Gal Totes</u> <u>55 Gal Drum</u> <u>5 Gal Pail</u>
VOC	Zero
Shelf Life	1 Year unopened
Surface Temp(F)	40 - 120
Volume Solids (%)	50 - 55
Viscosity (Stormer)	65 – 70 KU
VOC	Zero
Flashpoint(F)	>230 closed cup

**DRYING , 1.25 DFT , 77F , 50% RH**  
(Results will vary with temperature, humidity and DFT)

Tack Free: 3 – 5 minutes  
To Touch: 5 – 8 minutes  
Tack Handle: 10 – 15 minutes  
To Recoat: 5 minutes

*Note: Consult your technical representative before topcoating*

**SURFACE PREPARATION**

Best performance obtained from a clean, dry and oil free surface.

**SAFETY PRECAUTIONS**

Read material safety data sheet before use. Wash and clean up thoroughly with soap and water after handling.

**RECOMMENDED SPREAD RATE PER COAT**

	<u>Minimum</u>	<u>Maximum</u>
Wet mils (microns)	3.0(75)	6.0(150)
Dry mils (microns)	1.5(38)	3(75)
Coverage ft <sup>2</sup> /gal (m <sup>2</sup> /l)	546(13)	266(6)

**APPLICATION METHODS**

Conventional....Fluid Pressure: 10 – 20 psi , Tip: .040” - .045”  
.....Atomization Pressure: 45 – 60 psi  
Airless....Pressure: 2000 – 2,500 psi ,Tip: .015” - .019”  
HVLP  
Brush, Roller or Dip

**PERFORMANCE CHARACTERISTICS**

Scratch Resistance Method ASTM D3363  
Result: 7H , No visible damage  
Adhesion Method ASTM D4541  
Result: 400 psi  
Salt Fog Resistance Method ASTM B117  
Result: 300 HRS , rating 10  
Flexibility Method ASTM D522 3/8”  
Result: 180 degree bend passes

**SPECIFICATIONS**

A Minimum of 1 DFT is required. Films of 1.5 – 2.0 DFT offer optimum corrosion protection.  
Reduce with a maximum of 5% water (DO NOT THIN WITH SOLVENTS)

**MANUFACTURED BY**

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**DISCLAIMER**

The information contained in this bulletin is, to the best of our knowledge, true and accurate; but all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.