

**DOLPHIN 7775**  
**DOLPHIN 7778****HydroArmor<sup>®</sup> Water-Borne, Protective, Noise Reduction Coating**

**DESCRIPTION:** Sprayable, corrosion preventing, non-flammable, latex coatings designed to reduce sound transmission through a variety of substrates including cold rolled steel, galvanized steel, stainless steel, primed steel, aluminum, fiberglass and plywood. These sag resistant coatings can be sprayed onto parts, ducting and fabricated enclosures. Wet film builds of up to 60 mils can be applied without runs, drips or sagging. Because these materials are filled with hollow microspheres, these materials add little weight to vehicles, even at high film builds.

Our tests of **HydroArmor 7775 and 7778** show these coatings are extremely durable under even the worst service conditions. In our lab, we have subjected **HydroArmor 7775 and 7778** coated panels to several days at 250° F and to immersion in acidic and caustic solutions; these tests did not affect the dried film. Exposure to anti-freeze, motor oil, transmission fluid, and washer fluid did not affect the corrosion protection of the coating. Rocks bounced off the coating when test panels were subjected to the “Gravelometer” at -40° C. After weeks of exterior exposure cycling, the **HydroArmor** coating remains intact and there is no adhesion loss. The coating dries quickly at ambient temperatures to a hard but flexible coating.

The Volatile Organic Content of these coatings is lower than all coating limits established today. It is as safe to use and as easy to clean up as latex house paint. **HydroArmor 7775 and 7778** provide better corrosion protection than most of the protective coatings we have tested. **HydroArmor 7775 and 7778** provides sound dampening comparable to many of the solvent-borne products we have tested without the environmental and safety problems inherent in these competitive coatings.

**APPLICATION:** As with any coating, all loose dirt and dust should be removed from the surface to be coated before application. **HydroArmor 7775 and 7778** are designed to be applied with airless spray equipment. We recommend that a minimum of 30 wet mils of **HydroArmor 7775 or 7778** be applied; increasing the coating thickness will increase the sound dampening performance. We suggest using at least a 30:1 pump with a Graco model 220-954 gun. Spray orifices from .021” to .031”. As with all air motor pumps, adequate air volume is required. **HydroArmor** resists water wash-off after air drying 30 minutes at 45-55% relative humidity; if not baked, it dries through in 24 hours or less (drying is slowed by high humidity and poor air circulation). Until **HydroArmor** dries, overspray can be removed and equipment can be cleaned with water. Dried material can be removed with methyl ethyl ketone.

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**PROPERTIES:**

|                   |  |
|-------------------|--|
| Specific Gravity: | 0.75– 0.83   |
| Color:            | <b>Dolphin 7775</b> - Black<br><b>Dolphin 7778</b> - White |
| Solids by wt:     | 48 - 52%   |

**THE FOLLOWING TESTS WERE PERFORMED  
ON PANELS COATED WITH 15 DRY MILS OF MATERIAL  
AFTER DRYING 21 DAYS @ 68° F (20° C); 50% RH**

|                                       |   |
|---------------------------------------|---|
| Gravelometer:<br>ASTM D3170 @ -40° C. | Slight chipping but no penetration<br>to substrate; 8C rating |
|---------------------------------------|---|

|   |                               |
|---|-------------------------------|
| Low Temperature Flex<br>ASTM D 816; .25" mandrel @ -40°C. | No cracking; no adhesion loss |
|---|-------------------------------|

|   |   |
|---|---|
| Water Immersion:<br>ASTM D 870; 120 hrs. @20°C. | No blistering (Rating 10)<br>No adhesion loss |
|---|---|

|   |                               |
|---|-------------------------------|
| Effects of Heat Aging:<br>ASTM C 792; 168 hours @ 70°C. | No cracking; no adhesion loss |
|---|-------------------------------|

|  |   |
|--|---|
| Prohesion Corrosion Protection<br>ASTM G 85; Annex A5; 1000 hrs. | No loss of adhesion<br>No corrosion under coating |
|--|---|

| Resistance to Chemicals<br>ASTM F 925; antifreeze | Dulling | Color Chg | Surface Attack |
|---|---------|-----------|----------------|
| motor oil   | 1       | 1         | 1              |
| washer fluid                                      | 0       | 0         | 0              |
| transmission fluid                                | 1       | 1         | 1              |
| diesel fuel                                       | 0       | 0         | 0              |
|   | 2       | 2         | 2              |

scale: 0 = no chg, 1 = slight chg, 2 = moderate chg, 3 = severe chg

|                           |                                      |
|---------------------------|--------------------------------------|
| Flammability:<br>MVSS 302 | Pass<br>Self-extinguishing within 1" |
|---------------------------|--------------------------------------|

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