Reference Guide for DC 360

DC 360 Fire Protection for Eaves, Wood, Gypsum (Drywall), and OSB

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**DC 360 For Use on Eaves, Wood, Gypsum (DryWall), and OSB**

**Approvals:**
- **Wild Land Urban Interface:** Tested with a Top Coat for use on Eaves
- **Farmers Insurance:** Approved
- **UL Listed:** Life Safety Code 101
- **UL 723:** Class A (0 Flame/ 10 Smoke)
- **ASTM E119:** One Hour on Plywood Assembly
- **ASTM E119:** Non-Rated Gypsum Assembly to One Hour Rating
- **ASTM E84:** Equivalent to use in place of Fire Retardant Treated Wood (FRTW)

**DC 360 Passed the Wild Land Urban Interface for Eaves**

- Water Base
- 267 sq. ft. per Gallon as Class A
- 115 sq. ft. per gallon for 30 minute
- Non-Toxic
- Hypoallergenic
- Non-Carcinogenic
- Passed Strict EPA – V.O.C. and AQMD
- Spray, Roll, or Brush
- Warnock Hersey Listed
- Compatible with any paintable surface

**Do a couple of minutes really make that much of a difference? YES!**

A typical house fire doubles in size every 30 seconds. Using these figures a small trash can fire will grow over 1000 sq. ft. in 5 minutes. Needless to say, time is of the essence!!

**DC 360 Characteristics:**
- **Finish:** Flat
- **Packaging:** 5 Gallon Pails
- **Colors:** Off White
- **V.O.C.:** 56 g/l

**Uses:**
- Elementary, Intermediate, High School, and Colleges
- Nursing Homes, Hospitals, and Child Care Centers
- Penal Institutions
- Apartments and Hotels
- Factories, Warehouses, and Utilities
- Businesses, Retail Stores, and Restaurants
- Railroad and Other Transportation Companies
- Military Installations and Other Government Facilities

Smoke is the leading cause of death in fires. Adults and children can die in less than 60 seconds from the amount of smoke created from a typical fire. DC 360 is proven to reduce fire spread, and **dramatically reduce smoke up to 80%**, allowing you extra precious time to escape.
Quick Reference Application Guide

Download Full Application Guide at: www.painttoprotect.com

**Spraying DC 360 for Maximum Yield:** If this is the first time using DC 360 we suggest testing a pre-measured area to get a feel for spraying and yield. If the job requires 16 wet mils or 100 sq. ft. per gallon, than a 5 gallon pail would cover 500 sq. ft. Measure out one or two 500 sq. ft. sections using pieces of tape, thumbtacks, or canned spray paint. Use just enough to outline the area you intend to apply DC 360. We suggest spraying inside the outlined area and taking wet film thickness measurements, with a wet film gauge across the area, to get a feel for maximum yield.

<table>
<thead>
<tr>
<th>WET Film Thickness</th>
<th>Sq. Ft. Per One Gallon</th>
<th>Sq. Ft. Per Five Gallon</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 WFT</td>
<td>267 Sq. Ft. Per One Gallon</td>
<td>1335 Sq. Ft. Per Five Gallon</td>
</tr>
<tr>
<td>14 WFT</td>
<td>115 Sq. Ft. Per One Gallon</td>
<td>575 Sq. Ft. Per Five Gallon</td>
</tr>
<tr>
<td>40 WFT</td>
<td>40 Sq. Ft. Per One Gallon</td>
<td>200 Sq. Ft. Per Five Gallon</td>
</tr>
</tbody>
</table>

**Temperature:** **PROTECT FROM FREEZING DURING SHIPMENT AND STORAGE.** DC 360 is water based coating which will freeze and become unusable at temperatures below 32° F. **Do Not** store material at temperatures below 50° F. **Do Not Apply** DC 360 when ambient air and substrate temperatures fall below 50° F. Store DC 360 at 50° F to 80° F at all times.

**Humidity:** Humidity at 65% or higher requires fans to circulate the air for proper curing. High humidity may require a longer curing time. Relative humidity is harder to measure than temperature, but it plays an equally important role in how well DC 360 cures. Ideal conditions are 50-65% relative humidity. Curing times are significantly affected when humidity levels exceed 70%. Low relative humidity can also be a problem, because DC 360 may dry too quickly and lead to blistering on the surface. This is less common in cooler temperatures. Blistering happens more often when there is too much wind, which can dry DC 360 too quickly, causing dust deposits and other particles to settle on the surface. For additional information on applying DC 360 in high or low humidity contact IFTI at 949.975.8588 or email us at ptp@painttoprotect.com.

**Ventilation:** Please see humidity and temperature guidelines above. We recommend running fans to circulate the air during all applications especially in high or low humidity. In most cases free air movement across the surface will suffice. It is important that the fans do not blow directly onto the DC 360 coated surfaces before or after application, this may cause the paint to dry too fast resulting in cracking or delamination. Fans should be used to move air in and out of the work space.

**Freezing:** It’s also important that air temperatures do not drop below freezing conditions in the work space the first night after DC 360 coating has been applied. Curing paint can still contain moisture that will crystallize in sub-freezing temperatures instead of evaporating out into the atmosphere as it is designed to do. If temperatures do drop, you won’t see a problem until the following spring. Moisture will remain hidden in some surfaces over the winter and then migrate into the paint under a warm spring sun, which may form blisters or delamination.

**Surface Preparation:** All surfaces to be coated must be clean, cured, firm, dry and free of dust, dirt, oil, wax, grease, mildew, and efflorescence. The quality of any application is only as good as the surface preparation that precedes the application. Our coating has excellent bonding characteristics and will adhere to most sound, clean, surfaces. Verify that the surface is free of gouges, holes. Also verify the surface is stable, and not deteriorated. If any such defects are found make sure to repair them prior to proceeding.

**Material Preparation:** DC 360 must be thoroughly mixed before application. Failure to do so will seriously compromise the coating’s ability to perform. It is recommended to perform mechanical stirring with a high speed drill and a paddle appropriate for the size container you are working from. Contents should be stirred from the bottom up making sure to scrape the bottom and sides with a paint stick as you go. Contents should be stirred to a creamy consistency with no lumps. Continue mixing for 4-5 minutes per 5 gallon pail. Thinning is usually not needed. If DC 360 has been exposed to high heat, water may evaporate from the plastic 5 gallon container. If the paint level is below 3 inches from the top of the container, add enough water to bring the level back up to within 3 inches from the top in order to ensure proper consistency.

**Application Equipment:** DC 360 is best applied with an airless sprayer to achieve a more consistent mil thickness. In challenging areas where an airless sprayer is not practical, DC 360 can be applied by brush or roller (See the following recommended sprayer).

- **Brush:** Use top quality polyester/nylon blend brushes, such as those supplied by Purdy, Wooster, or equivalent
- **Roller:** Use a 3/8” polyester blend nap roller, which will generally work well when applying DC 360
**重要信息：使用 DC 360 前，请使用空气软管中的水来浸润。这将大大有助于应用并提高性能（请参阅上方的指示）。

**DC 333 粘度**：DC 360 是一种可变粘度涂层。当你打开 DC 360 时，未混合的粘度约为 30,000 – 35,000 CPS。混合5分钟后，粘度将下降至约20,000 CPS。如果粘度过高，你可以每5加仑水添加8盎司，然后搅拌以降低粘度至4000 – 5000 CPS。

**覆盖率**：DC 360 必须在应用前彻底混合5分钟

检查适当的技术报告或ESR以获取所需的湿膜厚度（WFT）和每平方英尺的覆盖率。例如，如果湿膜厚度（WFT）要求为1.4 mils，则覆盖率将为115 sq. ft. per gallon。

**测量湿膜厚度（WFT）**

- **第1步**
  - 何时在新涂漆的区域放置量规，量规必须垂直于基材，并用力压紧以确保准确深度。喷雾器也需要注意表面的差异，可能会影响读数。例如，如果表面不完全平坦，则一个方向的读数可能比另一个方向更准确。国际防火技术公司（IFTI）建议在表面放置金属板，至少每100 sq. ft.放置一个。IFTI建议在每块板上写上工作日期和喷雾器的姓名。在板的正面测量WFT将提供最准确的读数。保留这些板并将其保存在工作现场。它们是向代码官方或消防局长展示的好工具。

- **第2步**
  - 要使用WFT量规，请直接将量规放在湿一边（如图2所示）。凸起会指示测量的湿膜厚度。例如，如果第18 mil凸起是湿的，而第20凸起是干的，则湿测量厚度为18 mils。

**固化**：应使用风扇在固化前24小时内循环空气。不要将空气直接吹到涂层上。

**如何使用湿膜厚度量规**：WFT量规旨在为喷雾器提供即刻的mil测量，以了解刚喷雾的膜层的厚度。有几种类型的WFT量规可用。最常见的就是凹槽量规（见图1）。其他类型的量规由特殊供应商提供，包括偏心片，滚动凹槽和6面。

**技术**

- 当放置量规时，如果在新鲜涂漆的区域上涂装的区域，量规必须垂直于基材并紧压以确保正确深度。操作员还需要注意表面的差异，可能会影响读数。例如，如果表面不完全平整，则一个方向的读数可能比另一个方向的读数更准确。国际防火技术公司（IFTI）建议在整个表面放置金属板，每100 sq. ft.放置一块。IFTI建议在每块板上写上工作日期和操作员的姓名。在板的正面测量WFT将提供最准确的读数。保留这些板并将其保存在工作现场。它们是向代码官方或消防局长展示的好工具。

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**Airless Sprayer: IFTI Recommends Titans Airless Sprayers**

For Residential and Warehouse usage:

**Smaller Jobs less than 7,500 Square Feet:**

Pump: Titan 640 Impact or equivalent  
PSI: 3300  
GPM: 0.70  
Tip: 515 – 527  
Filter: 30 mesh, removal of filter is recommend from gun and machine  
Hose: 3/8” diameter airless spray line for the first 50’ from pump and 1/4” x 6’ whip  
**Priming your airless:** Prior to using DC 333 prime the sprayer by filling the hose with water

**Larger Jobs 7,500 Square Feet and Up:**

Pump: Titan 840 Impact or (Graco) Ultra Max II 795 Hi-Boy or equivalent  
PSI: 3300  
GPM: 1.00  
Tip: 515 - 532  
Filter: 30 mesh, removal of filter from gun and machine  
Hose: 3/8” diameter airless spray line for the first 50’ from pump and 1/4” x 6’ whip  
**Priming your airless:** Prior to using DC 333 prime the sprayer by filling the hose with water

Pump: Titan 1140 Impact or equivalent or (Graco) Mark 4 or 5 or equivalent  
PSI: 3300  
GPM: 1.2  
Tip: 515 - 534  
Filter: 30 mesh, removal of filter from gun and machine  
Hose: 3/8” diameter airless spray line for the first 50’ from pump and 1/4” x 6’ whip  
**Priming your airless:** Prior to using DC 333 prime the sprayer by filling the hose with water

**For 5 Gallon Pails and 55 Gallon Drums:**

Pump: Titan PowrTwin 12000 PLUS or (Graco) GH 300 or equivalent  
PSI: 3300  
GPM: 3.15  
Tip: 517 – 558  
Filter: 30 mesh, removal of filter from gun and machine  
Hose: 3/8” diameter airless spray line for the first 50’ from pump and 1/4” x 6’ whip

Pump: Titan M 4000 or (Graco) GH 888 or equivalent  
PSI: 4000/ 276  
GPM: 3.3  
Tip: 517 - 560  
Filter: 30 mesh, removal of filter from gun and machine  
Hose: 3/8” diameter airless spray line for the first 50’ from pump and 1/4” x 6’ whip