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Paint sprayers are a convenient tool to use for a variety of different DIY projects, which includes using a sprayer for cabinets. They're great for so many different projects; however, what you're able to do depends on the size of the tip your sprayer is equipped with. If the tips you have available won't work, you might need to find a different size. If you're asking "what do the numbers mean on a paint sprayer tip?", you might need a lesson on how to find the right paint sprayer tip size for your project. This article contains a paint sprayer tip size chart and other important information within the following sections: Before we explore what tip sizes to use, let's dive into the meaning behind the paint sprayer tip size numbers. If you have yet to find a quality paint sprayer, check out our guide to the best HVLP paint sprayer. Paint sprayer tip sizes can be easily understood by separating the first digit from the last two. The first number, when multiplied by 2, represents the fan width when spraying an object from a distance of 12 inches, while the last two numbers represent the orifice size in thousands of an inch. For example, a paint sprayer tip of 515 would have a fan width of 10 inches (5 x 2 = 10) and an orifice of 0.015 inch (15 / 1000 = 0.015). Orifice The orifice is the part of a spray tip where the atomization of material occurs. The listed orifice size is used to indicate the flow of fluid through the tip. To help illustrate, here's a paint sprayer tip chart using some of the most common tip sizes: Tip Number/Fan Width/Orifice 2114 inches/0.011 inch/3116 inches/0.011 inch/3116 inches/0.011 inch/3116 inches/0.015 inch/4118 inches/0.011 inch/4118 inches/0.015 inch/5115 inches/0.015 inch/51710 inches/0.017 inch/When determining the fan width, you multiply by 2 if you're working with imperial measurements. Those working with the metric system should multiply by 5 instead. For example, a paint sprayer tip of 515 would have a fan width of 25 centimeters (5 x 5 = 25). When deciding which paint sprayer tip size you need, you'll need to narrow down your choices based on the material you're working with. The thicker the material, the higher the orifice size will need to be. From there, you can determine how much fan width you'd like based on the available tip sizes. If you're unsure what size to look for, consulting a paint sprayer tip chart is a great way to explore potential options. This first spray tip chart can help you determine the orifice size needed (last two digits of your tip size) based on the material you plan to use for your project: Material/Orifice/Tip Size Oil-based Paint 0.009 - 0.013 in. Oil-based Primer 0.009 - 0.013 in. Oil-based Stain 0.009 - 0.013 in. Oil-based Lacquer 0.011 - 0.015 in. Heavy Latex 0.011 - 0.015 in. Elastomeric or Blockfiller 0.025 - 0.039 in. We can combine that information with compatible fan widths to determine which tip size number to look for. This second paint sprayer tip size chart can help you determine what numbers to look for based on the material you plan to use crossed with the options for fan widths: Material/4 in. 6 in. 8 in. 10 in. 12 in. Transparent Stain or Sealer/209, 211309, 311411 Incorrect usage of empty cell/Incorrect usage of empty cell/Semi-transparent Stain/211311, 313411, 4131Incorrect usage of empty cell/Incorrect usage of empty cell/Solid Stain/211311, 313411, 4131Incorrect usage of empty cell/Incorrect usage of empty cell/Interior Paint or Primer/Incorrect usage of empty cell/51415, 417515, 5171Incorrect usage of empty cell/Exterior Paint or Primer/Incorrect usage of empty cell/25, 535, 539625, 635, 6391Incorrect usage of empty cell/415, 417515, 517, 519, 521619, 621Heavy Latex or Smooth Elastomeric/Incorrect usage of empty cell/Incorrect usage of empty cell/25121, 525621, 625Elastomeric or Blockfiller/Incorrect usage of empty cell/Incorrect usage of empty cell/2525, 535, 539625, 635, 6391It's important to note that your options for available spray tip sizes might differ as products are updated and released. For those asking if paint sprayer tips are universal, the answer is no. While the tip size is the same, the issue is with the size and design of each brand's spray guards and barrel widths. Spray tips can only be used interchangeably if their design is compatible with multiple brands and/or models. If you are hoping to use interchangeable tips with multiple sprayers, you will need to determine if any tips exist that are compatible with the sprayer models you intend to use or purchase sprayers that will allow you to use the same tips. Even with an understanding of how tip sizes work, you might still be wondering which paint sprayer tip to use for your project. Fortunately, there are only a few questions you need to ask yourself to figure that out. This section will help you choose the right spray tip size for the job by covering the decision making process and the three questions you need to ask yourself in detail. Firstly, you need to ask yourself how thick the material is that you plan on using. Thin materials will need an orifice between 0.009 to 0.013 of an inch (tip size number X09 to X13), while thicker materials will require a flow between 0.021 to 0.025 of an inch (tip size number X21 to X25). If you're unsure of the thickness of your material, see the table below: Thin/Medium/Heavy/Very Heavy/Clear coat/Lacquer/Varnish (< low VOC/Shellac/Transparent stain/Water sealers/Waterborne lacquer/Acrylics/Primer/Paint/Enamels/Polyurethanes/Solid stain/Low VOC varnish/Smooth elastomeric/Heavy latex/Intumescent/Elastomeric/Blockfillers/Intumescent/Once you've determined the orifice size needed, you can narrow down your search based on the fan width. You should still have a couple options at this point, so ask yourself how large your project is and how much surface you'd like to cover as you spray. If your project is small to medium sized, choose the smaller option. If your project is larger, go with the larger fan width. If you're unsure of the size of your project, see the table below for some examples: Smaller/Medium/Large/XL/Chair/Cabinets/Walls/Full room/Home exterior/As an example of how you'd make your decision, if your choices are a 415 or 515 tip, choose the 415 for an 8-inch fan width to cover less surface, or the 515 tip for a 10-inch fan width to cover more surface. Based on the chart below, these are the spray tips that are compatible with each of the paint types and job sizes you chose from above: Incorrect usage of split cell/Thin Paint or Stain/Medium Paint/Heavy Paint/Very Heavy Paint/Smaller Job/209-2131Incorrect usage of empty cell/Incorrect usage of empty cell/Small Job/309-31312-3191Incorrect usage of empty cell/Incorrect usage of empty cell/Medium Job/409-413412-419421-4251Incorrect usage of empty cell/Large Job/Incorrect usage of empty cell/512-519521-525525-539X1. Job/Incorrect usage of empty cell/612-619621-625625-639A/After choosing the size you'd like to use, all that's left is to determine which of your remaining options are compatible with your paint sprayer brand and model. Be sure to review the tip's packaging if you're shopping in-store or do additional research online to confirm the tip will work with your sprayer before you make your purchase. Follow along with these steps to find the right spray tip for your job size. Now that paint sprayer tips have been explained, you're ready to explore what's available for your next DIY project. However, if you think you'd rather go the professional route instead, the City Painters are here to help. Contact us here or give us a call to get a free quote for your project. Paint sprayer tip size is a crucial factor in achieving a smooth and even finish on any painting project. Choosing the right tip size can be overwhelming, but it's essential to get it right to save time, money, and effort. A paint sprayer tip size chart is a useful tool that can help you select the right tip size for your specific project. Understanding paint sprayer tips is crucial for achieving a professional finish on any painting project. The tip size determines the amount of paint that is sprayed and the pattern in which it is applied. The larger the tip size, the more paint is sprayed, resulting in a thicker coat. On the other hand, a smaller tip size results in a finer mist that is ideal for intricate details and smaller surfaces. Key Takeaways Choosing the right tip size is crucial for achieving a smooth and even finish on any painting project. The tip size determines the amount of paint that is sprayed and the pattern in which it is applied. A paint sprayer tip size chart is a useful tool that can help you select the right tip size for your specific project. Understanding Paint Sprayer Tips Paint sprayer tips are an essential component of any paint sprayer. They come in different sizes, and each size is suited for a specific painting task. Understanding paint sprayer tips is crucial for achieving the desired results in your painting project. Paint Sprayer Tip Sizes Paint sprayer tips are available in different sizes, and each size is identified by a three-digit number. The first digit represents the fan width, while the last two digits represent the orifice size in thousands of an inch. For example, a 515 tip has a fan width of 10 inches and an orifice size of 0.015 inches. Choosing the Right Tip Size Choosing the right tip size is essential for achieving the desired paint finish. The tip size you choose will depend on the type of paint you are using, the surface you are painting, and the desired finish. Here are some general guidelines to help you choose the right tip size: For thin materials such as stains and lacquers, use a tip size between 0.009 and 0.013 inches. For medium-thick materials such as latex paint, use a tip size between 0.015 and 0.021 inches. For thick materials such as elastomeric coatings, use a tip size between 0.025 and 0.039 inches. The Right Sprayer for Your Application Always know the orifice size of the sprayer you're using and the tip size you're using. If you're using a sprayer with a tip size that is not the same as the orifice size, you may need to adjust the tip size based on the specific paint and surface you're working with. Materials and Their Optimal Tip Sizes When it comes to using a solid sprayer, selecting the appropriate tip size for the material you are using is essential for achieving the best results. Here is a breakdown of the optimal tip sizes for various materials. Thin Materials For thin materials such as clear coats, clear coat lacquers, acrylics, and clear acrylics, a smaller tip size is recommended. A tip size of 0.009" to 0.013" is ideal for achieving a fine finish. These materials require a smaller orifice size to produce a fine mist and avoid overspray. Thicker Materials Thicker materials such as polyurethane, lacquer, elastomeric, smooth elastomeric, shellac, intumescent, epoxies, and urethanes require a larger orifice size to achieve the best results. A tip size of 0.015" to 0.025" is recommended for thicker coatings. These materials require a larger orifice size to allow for the material to flow through the sprayer without clogging. When it comes to thinner materials such as thin clearcoats, dyes, bleaches, ink, water sealers, block fillers, fire retardants, metal flake, and gel coats, the optimal tip size depends on the thickness of the material. It is recommended to start with a smaller tip size and increase the size as needed to achieve the desired finish. In conclusion, selecting the appropriate tip size for the material you are using is crucial for achieving the best results. Remember to consider the thickness of the material and the desired finish when selecting the tip size. By using the correct tip size, you can save time and money while achieving a professional-quality finish. Understanding Orifice Size The orifice size of a paint sprayer tip is a crucial factor in determining the thickness and coverage of the paint being sprayed. The orifice size is the diameter of the hole at the end of the spray gun where the paint comes out. Different orifice sizes are suitable for different types of paints and coatings. A larger orifice size is ideal for thicker materials, while a smaller orifice size is better suited for thinner materials. The orifice size is usually measured in thousandths of an inch. For example, an orifice size of 0.017 inches is written as "517" (the first two digits represent the fan width and the last two digits represent the orifice size). It is important to know the orifice size of the sprayer you are using, as well as the orifice size of the tip you are selecting. When selecting a paint sprayer tip, it is essential to consider the orifice size that is appropriate for the type of paint or coating being sprayed. Using the wrong orifice size can result in uneven coverage, clogging, and other issues. Here are some general guidelines for selecting the appropriate orifice size based on the type of material being sprayed: For thin materials such as lacquers and stains, an orifice size of 0.011 to 0.013 inches is suitable. For medium-thickness materials such as latex paint and primer, an orifice size of 0.015 to 0.017 inches is recommended. For thicker materials such as enamels and elastomeric, an orifice size of 0.019 to 0.025 inches is ideal. It is also important to note that the orifice size can affect the speed and efficiency of the painting process. A larger orifice size can cover a larger area more quickly, but it may also result in more overspray and waste. A smaller orifice size may require more time and effort to cover a large area, but it can also result in more precise and controlled coverage. Overall, understanding the orifice size of a paint sprayer tip is essential for achieving high-quality, consistent results in any painting project. Choosing the Right Sprayer Tip for Different Surfaces When it comes to painting with a sprayer, choosing the right tip size is crucial. The tip size determines the spray pattern, paint flow, and the amount of overspray. Using the wrong tip size can result in a poor finish, uneven coverage, or wasted paint. Here are some tips for choosing the right tip size for different surfaces: Walls When painting walls, a 311 or 313 tip size is ideal. These tip sizes are perfect for spraying latex paint on large surfaces. They produce a fan width of around 6 to 8 inches, making it easy to cover large areas quickly. For textured walls, you may need a larger tip size to ensure the paint gets into the crevices. Ceilings Painting ceilings can be tricky, but with the right tip size, it can be done quickly and easily. A 515 or 517 tip size is ideal for ceilings. These tip sizes produce an even width of around 10 inches, making it easy to cover large areas quickly. They are also great for spraying paint at a downward angle, which is necessary when painting ceilings. Doors When painting doors, a 311 or 313 tip size is ideal. These tip sizes are perfect for spraying latex paint on small to medium-sized surfaces. They produce a fan width of around 6 to 8 inches, making it easy to cover doors quickly and evenly. For raised panel doors, you may need a smaller tip size to ensure the paint gets into the crevices. Cabinets/Painting cabinets can be tricky, but with the right tip size, it can be done quickly and easily. A 311 or 313 tip size is ideal for cabinets. These tip sizes produce a fan width of around 6 to 8 inches, making it easy to cover small to medium-sized surfaces quickly and evenly. For detailed cabinets, you may need a smaller tip size to ensure the paint gets into the crevices. Trims When painting trims, a 311 or 313 tip size is ideal. These tip sizes are perfect for spraying latex paint on small to medium-sized surfaces. They produce a fan width of around 6 to 8 inches, making it easy to cover trims quickly and evenly. For detailed trims, you may need a smaller tip size to ensure the paint gets into the crevices. In conclusion, choosing the right tip size is crucial when painting with a sprayer. Different surfaces require different tip sizes, and using the wrong tip size can result in a poor finish. By following these tips, you can ensure that you choose the right tip size for the surface you are painting, and achieve a professional-looking finish. Impact of Tip Size on Cost and Efficiency Choosing the right tip size for your paint sprayer is crucial in achieving a quality finish, but it also affects the cost and efficiency of your project. Different tip sizes are designed for specific types of paints and coatings, and choosing the correct one can help you save money and time. Using the wrong tip size can lead to several issues that can affect the cost-effectiveness of your project. For example, using a tip that is too small for the material being sprayed can cause tip wear and clogs, which can lead to increased maintenance and repair costs. On the other hand, using a tip that is too large can lead to overspray, which can waste paint and increase the cost of the project. Additionally, using the wrong tip size can lead to a faster application rate, but it can also result in a lower quality finish and texture. When choosing a tip size, it is important to consider the type of paint or coating being used. Manufacturers often provide guidance on which tip sizes are best suited for their products, and it is important to follow their recommendations to achieve the best results. It is also important to consider the type of paint sprayer being used. Low-pressure and HVLP paint sprayers typically require smaller tip sizes, while airless sprayers require larger tip sizes. Understanding the capabilities of your paint sprayer can help you choose the right tip size for your project. In addition to the impact on cost and efficiency, the tip size can also affect the pump life of the paint sprayer. Using a tip that is too small or too large can cause the pump to wear harder, which can lead to premature wear and tear. Overall, choosing the right tip size for your paint sprayer is essential for achieving a quality finish while minimizing costs and maximizing efficiency. Taking the time to understand the impact of tip size on your project can help you choose the right size and achieve the best results. Decoding the Three-Digit Code on Sprayer Tips When it comes to paint sprayer tips, understanding the three-digit code on them is crucial. The code indicates the tip type, fan width, and orifice size. Here's how to decode the three-digit code on sprayer tips: Tip Type Graco uses a color-coded system to identify tip types. General use tips are blue or black, while fine finish or low-pressure tips are green. The first digit in the three-digit code represents the tip type. Fan Width The second digit in the three-digit code represents the fan width. When multiplied by 2, it indicates the fan width when spraying an object from a distance of 12 inches. For example, a 515 tip would have a fan width of 10 inches (5 x 2 = 10). Orifice Size The last two digits of the three-digit code indicate the size of the spray orifice, in one thousandths of an inch. For example, the 17 in a 517 tip means the tip hole size is .017 inch. Understanding the three-digit code on sprayer tips helps you make the right choice and avoid application issues. Always know the orifice size of the sprayer you're using and the tip size you're using. If you're using a sprayer with a tip size that is not the same as the orifice size, you may need to adjust the tip size based on the specific paint and surface you're working with. Role of Pressure in Paint Spraying When it comes to paint spraying, pressure plays a crucial role in achieving the desired finish. The pressure volume on each sprayer is different and this determines which size tips can be used. This information can be found in the sprayer manual. Most often the model number of the sprayer corresponds to the largest tip it can support. Higher pressure allows for faster application of paint and is ideal for large surfaces. However, it can also result in more overspray and a thicker coat of paint. Lower pressure, on the other hand, is better for smaller surfaces and finer details. It allows for more control and precision but may require multiple passes to achieve the desired coverage. When using low VOC varnish, it's important to use lower pressure to avoid creating too much overspray and to ensure that the finish is even and smooth. This is because low VOC varnish is thinner and more delicate than traditional varnish, and higher pressure can cause it to atomize too much, resulting in a less-than-perfect finish. In summary, understanding the role of pressure in paint spraying is crucial for achieving the desired finish. It's important to consult the sprayer manual to determine the appropriate pressure for the job and to adjust accordingly when using low VOC varnish. Frequently Asked Questions What is the difference between a 515 and 517 spray tip? The first digit of a Graco spray tip number represents half of the fan width, while the last two digits represent the orifice size in thousands of an inch. So, a 515 spray tip has a fan width of 10 inches and an orifice size of 0.015 inches, while a 517 spray tip has a fan width of 10 inches and an orifice size of 0.017 inches. The difference between the two spray tips is the size of the orifice, which affects the amount of material that is sprayed. What are some common uses for a 515 spray tip? A 515 spray tip is a versatile spray tip that is suitable for a variety of projects, including interior and exterior walls, ceilings, and trim. It can also be used for staining decks and fences, as well as for spraying latex paint on a variety of surfaces. How do I choose the right tip size for my project? To choose the right tip size for your project, you need to consider the material you are spraying and the surface you are spraying it on. Thicker materials, such as latex paints and primers, require a larger orifice size, while thinner materials, such as stains and lacquers, require a smaller orifice size. The surface you are spraying on also affects the size of the spray gun tip you need. For example, a larger orifice size may be needed for rough surfaces, while a smaller orifice size may be needed for smooth surfaces. It's important to consult the paint sprayer tip size chart and follow the manufacturer's recommendations for the best results. If you've ever tried painting with a spray gun, you've probably heard people talk about spray tip sizes. Maybe you felt a bit confused by all the numbers and letters. Don't worry, you're not alone. I was once right where you are, holding a spray gun and wondering why the paint was spraying too fast, too slow, or just plain wrong. Understanding spray tip sizes can really make your painting job go smoothly. The right spray tip can help you avoid a mess, save time, and make your project look like a pro did it. Through this blog, I help you learn everything you need to know, step by step, in a way that's easy to understand. You'll know exactly how to choose the right tip size for your project, and you'll be able to troubleshoot any problems you run into. So, let's get started! What are spray tips? Spray tips are the small metal pieces at the front of a paint sprayer. They control the spray pattern, fan width, and orifice size. The orifice size is the diameter of the hole at the end of the spray gun. The fan width is the width of the spray pattern. The spray pattern is the shape of the spray. The fan width and orifice size determine the amount of paint that is sprayed. The spray tip size is the combination of the fan width and orifice size. For example, a 515 spray tip has a fan width of 10 inches and an orifice size of 0.015 inches. The spray tip size is important because it determines the amount of paint that is sprayed. A larger orifice size will spray more paint, and a smaller orifice size will spray less paint. The fan width is also important because it determines the width of the spray pattern. A larger fan width will spray more paint, and a smaller fan width will spray less paint. The spray tip size is also important because it determines the quality of the finish. A larger orifice size will spray more paint, and a smaller orifice size will spray less paint. The fan width is also important because it determines the width of the spray pattern. A larger fan width will spray more paint, and a smaller fan width will spray less paint. The spray tip size is also important because it determines the quality of the finish. 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to 0.013 of an inch (tip size number X09 to X13), while thicker materials will require a flow between 0.021 to 0.025 of an inch (tip size number X21 to X25). If you're unsure of the thickness of your material, see the table below:ThinMediumHeavyVery HeavyClear coat lacquerVarnish (< low VOC)ShellacTransparent stainWater sealersWaterborne lacquerAcrylicsPrimerPaintEnamelsPolyurethaneSolid stainLow VOC varnishSmooth elastomericsHeavy latexIntumescentsElastomericsBlockfillersIntumescentsOnce you've determined the orifice size needed, you can narrow down your search based on the fan width. You should still have a couple options at this point, so ask yourself how large your project is and how much surface you'd like to cover as you spray. If your project is small to medium sized, choose the smaller option. If your project is larger, go with the larger fan width. If you're unsure of the size of your project, see the table below for some examples:SmallerSmallMediumLargeXLChairCabinetsWallsFull roomHome exteriorAs an example of how you'd make your decision, if your choices are a 415 or 515 tip, choose the 415 for an 8-inch fan width to cover less surface, or the 515 tip for a 10-inch fan width to cover more surface.Based on the chart below, these are the spray tips that are compatible with each of the paint types and job sizes you chose from above:Incorrect usage of split cellThin Paint or StainMedium PaintHeavy PaintVery Heavy PaintSmaller Job209-213Incorrect usage of empty cellIncorrect usage of empty cellIncorrect usage of empty cellSmall Job309-313312-319Incorrect usage of empty cellIncorrect usage of empty cellMedium Job409-413412-419421-425Incorrect usage of empty cellLarge JobIncorrect usage of empty cell512-519521-525525-539XL JobIncorrect usage of empty cell612-619621-625625-639After choosing the size you'd like to use, all that's left is to determine which of your remaining options are compatible with your paint sprayer brand and model. Be sure to review the tip's packaging if you're shopping in-store or do additional research online to confirm the tip will work with your sprayer before you make your purchase.Follow along with these steps to find the right spray tip for your job size.Now that paint sprayer tips have been explained, you're ready to explore what's available for your next DIY project. However, if you think you'd rather go the professional route instead, the City Painters are here to help. Contact us here or give us a call to get a free quote for your project.

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