Choosing the Right Spray Tips for Your Spray Gun

Choosing the right tip can make an enormous difference to the finish quality, completion time, and cost effectiveness of any spraying project.

Difficulté Très facile

① Durée 1 heure(s)

Catégories Machines & Outils

① Coût 0.00 USD (\$)

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Introduction

Choosing the right tip can make an enormous difference to the finish quality, completion time, and cost effectiveness of any spraying project. A good tip is a real investment and will pay for itself very quickly.

Simply follow our 3 step process to select the right spray tip for your next paint job.

- STEP 1 Find you paint or stain thickness to work out your tip size
- STEP 2 Match the tip size to the fan width to work out correct tip size
- STEP 3 Confirm your selected tip is supported by your sprayer equipment



Matériaux

paint

Outils

spray paint tips

Étape 1 - Find you paint or stain thickness to work out your tip size

Thin Materials	
Material Type	Tip Size
Clear Coat Lacquer	009 – 011
Varnish, below low VOC	009 – 011
Shellac	009 – 013
Transparent Stain	009 – 013
Water Sealers	009 – 013

Medium Materials	
Material Type	Tip Size
Water borne Lacquer	012 – 014
Clear Acrylics	012 – 014
100% Acrylic for Interior, Latex	013 – 015
Oil-based Enamels	013 – 015
Polyurethane	013 – 015
Solid Stain	013 – 015
Low VOC varnish	013 – 015
Interior Latex	015 – 017
Primer Latex	015 – 017
Exterior Latex	017 – 019
Primer Oils	017 – 019

Thick Materials	
Material Type	Tip Size
Elastomerics	025 – 039
Block Fillers	025 – 039
Intumescents	017 – 039

Étape 2 - Match the tip size to the fan width to work out correct tip size

Secondly, you'll want to work out the **fan width** that's required to work out your spray tip.

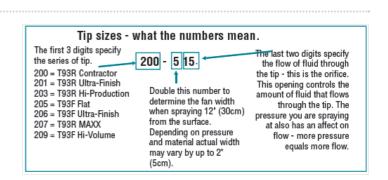
Pro Tip

- Number calculation, it's the first digit is half the fan width (5 x 2
 = 10 inch fan width)
- It's the last two digits that are the size of the tip opening in thousandths of an inch.

TIP SIZE	FAN WIDTH (in inches)					
	4 INCH	6 INCH	8 INCH	10 INCH	12 INCH	
011	211	311	411			
013		313	413			
015			415	515		
017				517		
)19					619	
)21				521	621	

Étape 3 - Confirm your selected tip is supported by your sprayer equipment

Finally, you'll want to confirm it the selected spray tip size is supported by your sprayer equipment.



Étape 4 - Let's look at an example

A 515 tip compared with a 523 tip. Both tips will spray a pattern 10 inches wide but the 523 tip will produce a thicker coating provided you use the same sprayer pressure and hand speed.

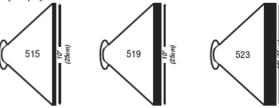
On the other hand, keeping the orifice size the same and increasing the fan width allows you to spread the same amount of material over a wider area.

When it comes to choosing tips, you should start by checking the coating manufacturer's instructions; they have researched optimum tip sizes for the viscosity of their particular products.

Having said that, the range of tip sizes available allows you almost infinite control of your spraying finish and quality.

Proper tip sizing.

Same fan width - difference orifice sizes: The example below demonstrates the difference between tips with the same fan width, but increasing orifice sizes. The larger the orifice, the more coating you apply using the same spray pressure and hand-speed as you spray.



Different fan width - same orifice sizes: The example below demonstrates the difference between tips with the same orifice size, but increasing fan sizes. The same amount of coatings is applied over a larger area - or less coating per square inch using the same pressure and hand-speed as you spray. When necessary, remember to size up or down your orifice as you size up or down your fan width if you want to apply the same amount of coating per square inch.

