

Small Damage Repair - Automotive



Spray gun vs. aerosol can

Comparison spray gun vs. SprayMax



The right choice

Spray gun or aerosol can – what is the right choice?

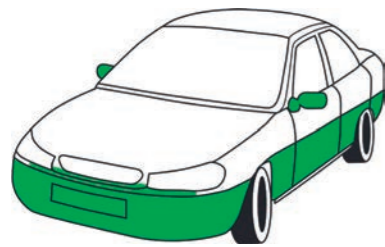
Both kind of applications work properly and successful. As the repair and damage sizes become smaller, the SprayMax aerosol system gains advantages in lowering the process costs. The repair zones, where small damage repairs should be made have to be respected (see picture below). A lot of times, education and personal working behavior prevent the usage of new technologies like the SprayMax Aerosol System.

It is a tough job to convince body shop personal to use the SprayMax Aerosol system - finally a demonstration will do the best job. Try it and you will like SprayMax – it is a new dimension in Aerosol Technology. With the following comparison of a spray gun and SprayMax Aerosol application on different damage repair sizes you can see the results in processing time, material consumption, total finishing time and process costs.

The size of the painted surface is limited by the maximum processing surface that can feasibly be achieved with an aerosol can or for small spot repairs. You should not use an aerosol can on flat surfaces, such as the engine hood, roof or trunk lid; in this case a spray gun is the better choice.

Application ranges

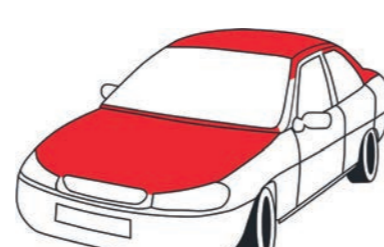
Up to 50 % process cost savings compared to the spray gun by using the SprayMax PaintRepair system



Area A:
SprayMax is advisable in this area. The ideal area for SprayMax newcomers



Area B:
Depending on requirements and painting experience, SprayMax can be used for repair paintwork.



Area C:
SprayMax is not advisable in this area for repair paintwork.

Source: Allianz Zentrum für Technik GmbH - vehicle engineering division

However, for spot repairs e.g. letter or tabloid size (plus blending zone), the paint spray can is superior to the spray gun because the reduced overspray and the lower material consumption means that the overall work time and process costs are lower.

This comparison does not take into account the synergy effects that can be achieved for the operational processes by using the paint spray can as an alternative:

- **Reduced occupation of the painting/drying booth**
Using the aerosol can for spot repairs, e.g. at preparation or multi-function workplaces, frees up the painting/drying booth for larger damaged areas, which in turn means more efficient use of the capacities
- **Reduced energy costs**
Using the aerosol can means shorter drying times and, in connection with portal spots or IR spots, eliminates „unnecessary“ energy costs for the booth.
- **More flexible work planning**
Using the aerosol can avoids tying up workplaces or certain work areas, (workplace requirements must be guaranteed!), which in turn means higher flexibility for employees, damages and schedules.
- **Rational work processes raising capacity utilisation**
Thanks to faster and workplace-specific repairs, several spot repairs can be processed in parallel. This creates space for other services and sales promotions.
- **More efficient repair work attracts new customers**
Using the aerosol system means less investment costs creating space for cross-selling or the development of new business fields e.g. fleet business / insurance business / partnerships or other cooperations with workshops through to new segments like industrial repair paintwork.

Using the aerosol can offers professionals an uncomplicated, risk-free and fast opportunity to enter the painting business in a **profitable** way.

The SprayMax module system has a proven answer to all questions, with the complete product range, the cleaning-free aerosol filling system FillClean, the Minimix paint system or the mobile circulating air extraction system when conducting painting jobs outside the painting cabin.

It's your choice!
It's your money!



EFFICIENCY



COSTS



PLANNING



CAPACITY



CUSTOMERS



Paint Repair comparison



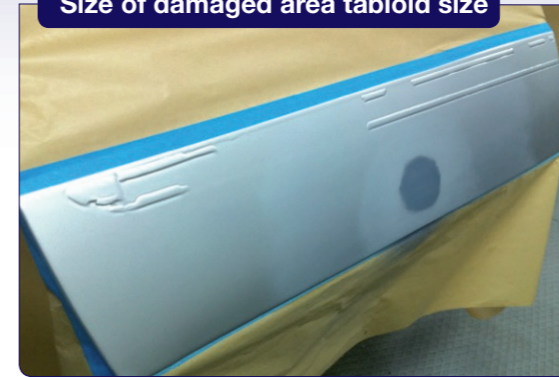
Size of damaged area letter size



Result



Size of damaged area tabloid size



Result



Application procedure	
Work flow	
Polish fade-off zone	
Cleaning with silicon remover	
Sanding	
Cleaning with silicon remover	
Masking	
Plastic adhesion primer	
Clean spray gun	
1K primer filler, or 2K filler	
Clean spray gun	
Heat carbinet or warm-air drying	
Wet or dry sanding	
Cleaning with Aqua silicon remover	
Mix and fill paint	
Water basecoat, spraying and drying	
Clean spray gun	
Spray clearcoat (short hardener)	
Clean spray gun	
Spray spot blender	
Clean spray gun	
Heat carbinet drying	
Polish fade-off zone	
Total	

SPRAY MAX		SPRAY MAX	
Process	Time	Process	Time
	4		4
14	1	9	1
	4		4
3	1	1,5	1
	7		6
5,1	2	2,4	1
	4	0	0
	3		2
	5		3
6,7	1	2,8	1
	11		11
23	6	14,1	5
	3	0	0
24,9	1	15,2	1
	2	0	0
10,3	1	6,3	1
30	3	0	0
	45		30
	7		7
117 g	66	51,3 g	48

Comparison of material consumption

	4.2 oz
	1.8 oz
Savings in percent	-56 %

Total material savings of approx. 50% with small damage repairs – compared to spray guns. SprayMax becomes important in the samll damage area.

Comparison of process time

	66 min.
	48 min.
Savings in percent	-27 %

Average time saved when using the SprayMax system is around 30 % independent of the paint repair system.

Comparison of overall costs

	51 USD
	35 USD
Total savings	-32 %

Total cost savings of at least 30 – 50 % depending on the size of the damaged area and the products used!

SPRAY MAX		SPRAY MAX	
Process	Time	Process	Time
	5	8	5
24,3	1	14	1
	4		4
3,6	1	2,4	1
	8		8
4,3	3	2	1,5
	4	0	0
	3		2
	6		4
10,2	1	4,1	1
	11		11
19,8	8	15,6	5
	3	0	0
29,7	1	19,1	1
	2	0	0
14,6	1	12,1	1
30	3	0	0
	45		30
	8		8
136,5 g	73	77,3 g	53,5

Comparison of material consumption

	4.9 oz
	2.8 oz
Savings in percent	-43 %

Total material savings of approx. 50% with small damage repairs – compared to spray guns. SprayMax becomes important in the samll damage area.

Comparison of process time

	73 min
	54 min.
Savings in percent	-27 %

Average time saved when using the SprayMax system is around 30 % independent of the paint repair system.

Comparison of overall costs

	56 USD
	39 USD
Total savings	-30 %

Total cost savings of at least 30 – 50 % depending on the size of the damaged area and the products used!

Remarks: labour cost per hour 52 USD (without additional costs and contributions)



**THE WORLD OF
SPRAYPAINT**

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