

Tabel 2: Physical Decontamination Techniques

Technical code	Techniques	Strengths	Quality of Performance Data*	Type of surface	Degree of use [%]/surface [m²]	Unit Cost [€/m²]	Total Cost [€/month]
2.1	Strippable Coating	Produce a single solid waste. No airborne contamination. No secondary liquid waste	Good	Metal	10 / 8500	34,275	17.137,43
				Concrete	1 / 650		
2.2	Centrifugal Shot Blasting	Especially good for removing paint and light coating from concrete surfaces in open areas, away from wall-floor interfaces	Good	Concrete	10 / 6500	68,579	34.289,28
2.3	Concrete Grinder	Fast and mobile. Less vibration	Good	Concrete	1 / 650	33,403	16.701,36
2.4	Concrete Shaver	Good for large, flat , open concrete floors and slabs. Fast and efficient.	Good	Concrete	7 / 4550	17,646	8.823,11
2.5	Concrete Spaller	Good for in-depth contamination. Fast.	Good	Concrete	0,5 / 325	28,530	14.265,22
2.6	Dry Ice Blasting	CO ₂ gas generates very little extra waste. Very good for surface contamination.	Proper	-	-		
2.7	Dry Vacuum Cleaning	Quick available. Compatible with other physical decontamination techniques	Proper	Concrete	10 / 6500	15,590	7.795,43

Technical code	Techniques	Strengths	Quality of Performance Data*	Type of surface	Degree of use [%]/surface [m ²]	Unit Cost [€/m ²]	Total Cost [€/month]
2.8	Electro-Hydraulic Scabbling	Generates less secondary wastes than other techniques using water. Very efficient. Removes deep contamination.	Poor	Concrete	1 / 650	135,666	67.833,28
2.9	En-vac Robotic Wall Scabblers	Works well on large , open spaces, including walls and ceiling. Worker exposure to contaminants is limited; remote operation and integrated vacuum system	Good	Concrete	35 / 22750	11,887	5.943,61
2.10	Grid Blasting	Well-established technology. Different Types of grid and blasting equipment are available for a variety of applications.	Good	Metal Concrete	10 / 8500 20 / 13000	11,152	5.575,98
2.11	High Pressure Water	High pressure systems are available	Proper	Metal	10 / 8500	109,206	54.603,28
2.12	Soft Media Blast Cleaning (Sponge Blasting)	Removes actually all the contamination from the surface	Good	Metal	20 / 17000	17,960	8.980,43
2.13	Steam Vacuum Cleaning	Easy to use. Wasted surfaces dry quickly. Good for large flat surfaces	Good	Metal	5 / 8500	59,738	29.869,28

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2.14	Piston Scabblers	Remote operated and standard units are available. Good for open flat concrete floors and slabs.	Good	Concrete	1	103,615	51.807,45

*¹) The quality of performance resulted from the professional decision, available information & literature