

DecoRad® Automate

Productbrochure



Sustainable job progress with DecoRad®

Accelerated drying and curing with DecoRad®

For many years now, DecoRad® Systems bv has been the leading specialist in the area of accelerated drying and curing of paints, coatings and repair compounds. Developed for and by professionals in the painting and floor branch. The DecoRad® concept makes it possible to quickly dry each physically drying water-based paint. Paint to which photoinitiators have been added, can be cured immediately. In addition, the DecoRad® concept makes it possible to fully cure coatings, repair compounds and floor coatings in mere seconds, completely free of VOCs (volatile organic compounds). DecoRad® offers many advantages in various areas. Applying DecoRad® can save costs, improves durability and let you work more efficiently.

The DecoRad® Automate is the ultimate tool for repetitive work. A surface of 2m² (a door) can be entirely dried and cured in just 10 minutes. this is ideal for instant drying and curing of doors of apartments, for instance. the DecoRad® Automate is supplied to professional users through wholesalers.

How the DecoRad® Automate works

After applying the paint or coating, it can be dried with infrared and cured with UV light. Drying with infrared is necessary for water-based products and ensures the evaporation of the water. Treating with UV light is the second step for modified water-based products and the only step for modified full solid products. UV light causes the curing process.

After curing with the DecoRad® Automate, the surface is ready for use or can immediately be sanded to apply a second layer of paint or coating. The treated surface is instantly scratch and wear-resistant.

The DecoRad® Automate comes with a convenient trolley principle, which allows for easy transportation to the place of work. The hoods protect the lamps and can easily be taken off. The DecoRad® Automate has 3 automatic programmes for infrared, infrared + UV and UV. The combined programme first starts with infrared and then continues with UV.

The DecoRad® equipment results in significantly shorter drying and curing times.

Applications for the DecoRad® Automate

The DecoRad® Automate is the ultimate tool for larger maintenance projects. It is ideal for accelerated drying of doors (>5 items). But it can also be used for other instances, both indoor and outdoor, such as for hotels, hospitals, prisons and schools.

With projects like these it is very inconvenient if one has to wait for the drying and curing. DecoRad® can thus offer additional service and makes it easier to plan with residents.





Advantages of the DecoRad® Automate

The DecoRad® automate offers many advantages:

Cost savings

- Increased efficiency
- Less failure costs
- Weather-independent

Environment and Durability

- No emissions of hazardous solvents
- Less CO2 emissions due to less travel miles
- Sustainability of the work increases

Increases service level

- Minimal inconvenience for users (such as residents)

Health

- Working with environmentally-friendly products

Suitable compounds DecoRad® Automate

Paints

Drying with infrared works for any type of physically drying water-based paint. The curing at the UV position only works for water-based paint with added photoinitiators. These photoinitiators react with the active groups in the binding agent, thus allowing them to form connections. The number of paint manufacturers now producing paint with added photo initiators (thus allowing accelerated curing) is rapidly increasing. Manufacturers Caparol and Drywood currently offer UV curing paint. Would you like to stay updated on the latest developments? Subscribe to our newsletter on the right side of our website www.decorad.com.

DRYING AND CURING TABLE WATER-BASED PAINT*					
	Without DecoRad®	With DecoRad® Total time	DecoRad® position		
			Infrared	UV	
Assessed at 23°C en 50% R.H.					
Dust-free after	20-30 minutes	3 minutes	}	-	
Tack-free after	90-120 minutes	3 minutes		3 minutes	-
Repaintable	4-5 hours	3 minutes		-	-
Cured/sandable after	7-10 days	5 minutes	-	2 minutes	
Assessed at 15°C en 65% R.H.					
Dust-free after	30-60 minutes	3 minutes	}	-	
Tack-free after	3-4 hours	3 minutes		3 minutes	-
Repaintable	6-8 hours	3 minutes		-	-
Cured/sandable after	10-12 days	5 minutes	-	2 minutes	
Assessed at 7°C en 80-% R.H.					
Dust-free after	60-90 minutes	3 minutes	}	-	
Tack-free after	4-6 hours	3 minutes		3 minutes	-
Repaintable	10-12 hours	3 minutes		-	-
Cured/sandable after	12-14 days	5 minutes	-	2 minutes	

*Starting points: 1. drying surface 1 m² 2. applied layer thickness +/- 90 micron 3. 10 to 15 minutes flow-time / flash-off time

SPECIFICATIONS DECORAD® AUTOMATE

General

Description	DecoRad® Automate
Brand	DecoRad®
Colour	Silver / black
Reach	100cm
Working height	240cm
Distance to object	5-7cm
Introduction	November 2010

Measurements and weights

Total weight (kg)	ca. 70
Measurements (cm)	60 x 55 x 110 (L x W x H)

Lamps

Type of infrared lamp	IR-120v-400W Ruby Slim
Number of infrared lamp(s)	6
Burning hours infrared lamp(s)	1000
Start-up time infrared lamp(s)	< 5 seconds
Type UV-lamp(s)	UVA-230v-400W
Number of UV lamp(s)	6
Burning hours UV-lamp(s)	500
Start-up time UV-lamp(s)	< 60 seconds
Ozone	Free

Power supply

Power IR infrared (Watt)	2400
Power UV - ultraviolet (Watt)	2400
Power supply	220 - 240v 16Ah
Cable powering (cm)	600

Accessories

Safety goggles in case	Present
Instruction manual	Present

Warranty (excluding IR & UV lamps)

Manufacturer's warranty	1 year
Warranty type	Carry-in

Inspections

CE & NEN-EN 14255-1	✓
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