

# DecoRad<sup>®</sup> Handmate

Productbrochure



Sustainable job progress with DecoRad<sup>®</sup>

# 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® Handmate is a great tool for smaller work. Within few minutes, surfaces can be fully dried and cured. This is ideal for instantly drying and curing door steps, frames, steps, doors and much more. The DecoRad® Handmate is supplied to professional users through wholesalers.**

## How the DecoRad® Handmate works

After applying the paint or coating, it can be dried with infrared light and cured with UV light. Drying with infrared is necessary for water-based products and ensures the evaporation of the water. Curing with UV light is the second step for modified water-based products and the only step for modified full solid products. The UV light sets off the curing process. After treatment with the DecoRad® Handmate, the surface is ready for use or can be sanded instantly so as to apply a second layer of paint or coating. The treated surface is instantly scratch and wear-resistant. The DecoRad® Handmate comes with a handy dust and waterproof suitcase. The DecoRad® Handmate has 3 positions: infrared, infrared + UV and UV.

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

## Applications for the DecoRad® Handmate

The DecoRad® Handmate is a great tool for smaller work. It is ideal in use for objects where accelerated drying and curing is very convenient, such as doors, frames, doorsteps, stair heads and steps.

In addition to the above-mentioned activities, the DecoRad® Handmate is also ideal for activities such as: mutation work, receipt work, repair work and repairs to damage by burglary.

The DecoRad® Handmate is also very handy for maintenance projects to restaurants, hotels, banks, hospitals, schools, prisons and lifts. For all these projects, it is a waste of precious time when one has to wait for the paint, coating or repair compound to dry and cure.

## Advantages of the DecoRad® Handmate

The DecoRad® Handmate offers many advantages:

### Cost savings

- Increased efficiency
- Less failure costs
- Weather-independent

### Increases service level

- Minimal inconvenience for users (such as residents)

### Environment and Durability

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

### Health

- Working with environmentally-friendly products



# Suitable Compounds DecoRad® Handmate

## Paints

Drying at the infrared position 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](http://www.decorad.com).

DRYING AND CURING TABLE WATER-BASED PAINT**				
	Without DecoRad®	With DecoRad® Total time	DecoRad® position	
			Infrared	IR+UV
<b>Assessed at 23°C and 50% R.H.</b>				
Dust-free after	20-30 minutes	2 1/2 minutes	} 2 1/2 minutes	-
Tack-free after	90-120 minutes	2 1/2 minutes		-
Repaintable	4-5 hours	2 1/2 minutes		-
Cured/sandable after	7-10 days	4 minutes	-	1 1/2 minutes
<b>Assessed at 15°C and 65% R.H.</b>				
Dust-free after	30-60 minutes	3 minutes	} 3 minutes	-
Tack-free after	3-4 hours	3 minutes		-
Repaintable	6-8 hours	3 minutes		-
Cured/sandable after	10-12 days	5 minutes	-	2 minutes
<b>Assessed at 7°C and 80-% R.H.</b>				
Dust-free after	60-90 minutes	3 1/2 minutes	} 3 1/2 minutes	-
Tack-free after	4-6 hours	3 1/2 minutes		-
Repaintable	10-12 hours	3 1/2 minutes		-
Cured/sandable after	12-14 days	6 minutes	-	2 1/2 minutes

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

## Repair Compound: U-fill & U-fix

The repair compound U-Fill is especially developed for the DecoRad® equipment. This 1-component product does not contain solvents and is a urethane acrylate. U-Fill does not have to be mixed and reacts to UV light. It is very mouldable and spreadable. U-Fill can be used in combination with the U-Fix primer, which is only required for bare wood. U-Fill and U-Fix are marketed by Köhler Woodcap.



DRYING AND CURING TABLE REPARATION COMOUND**		
	Without DecoRad®	With DecoRad® (U-Fill)
<b>Assessed at 23°C and 50% R.H.</b>		
Sandable after	30 minutes	1 minute
<b>Assessed at 15°C and 65% R.H.</b>		
Sandable after	30-60 minutes	1 minute
<b>Assessed at 7°C and 80-% R.H.</b>		
Sandable after	>60 minutes	1 minute

\*Starting points: A very quick-drying repair compound was used as a reference.

## SPECIFICATIONS DECORAD® HANDMATE

### General

Description	DecoRad® Handmate
Brand	DecoRad®
Colour	Silver / black
Reach	20cm
Distance to object	5-7cm
Introduction	2009

### Measurements and weights

Weight hand unit (kg)	ca. 1,6
Measurements hand unit (cm)	24 x 25,5 x 16 (L x W x H)
Weight power supply/switch unit (kg)	ca. 4,0
Measurements power supply/switch unit (cm)	30 x 13 x 16 (L x W x H)
Weight suitcase (kg)	ca. 4,8
Measurements suitcase (cm)	72 x 31 x 28.5 (L x W x H)
Total weight (kg)	ca. 10,4
Measurements (cm)	72 x 31 x 28.5 (L x W x H)

### Lamps

Type of infrared lamp	IR-240v-400W Clear
Number of infrared lamp(s)	2
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)	1
Burning hours UV-lamp(s)	500
Start-up time UV-lamp(s)	< 60 seconds
Ozone	Free

### Power supply

Power IR infrared (Watt)	800
Power UV - ultraviolet (Watt)	400
Combined power IR + UV (Watt)	1200
Power supply	220-240V
Cable powering (cm)	180
Cabel from switch to hand unit (cm)	350

### 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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