

Epifanes Black Bottom

One-component black underwater coating

Type	Physical drying	
Base	Btumen	
Properties	Flexible black underwatercoating for the (underwater) protection of steel and wood. Also suited for repair and/or maintenance of existing (coal-)tar layers. May also be used for application above the waterline. Colour fast and resistant to alternate immersion and influences of air.	
Field of application	Steel - Wood : the (underwater) protection.	
Colours	Black	
Gloss	Semi gloss	
Density	0,97 kg/dm ³	
Viscosity	220 seconds DIN-cup 8 mm	
Solids contents	55 +/- 2 vol. %	
VOC - level	383 grams/liter	
Packing	1000ml. - 4000ml.	
Shelf life	In closed original container stored in a dark location between 5 - 25°C approx. 3 years.	
Conditions during application and drying	Temperature	minimal 10°C. - maximum 28°C.
	Relative air humidity	minimal 50% - maximum 75%
Thinner for brush and roller applications	Epifanes Brushthinner for Paint & Varnish	
Thinner for spray applications	Epifanes Thinner D-100	
Application tools	Soft, longhaired brush, short haired roller Conventional spraay, airless spray	
Recommended filmthickness / coat		
	Brush/roller application	100 - 150 µm wet = 50 - 75 µm dry
	Spray application	100 - 250 µm wet = 50 - 125 µm dry
Application recommendations	Stir well prior to use and during application. Do not apply wet-in-wet. Do not apply excessive wet films to avoid the formation of curtains and drying problems.	
Theoretical coverage	Brush/roller	8 - 10 m ² per liter @ 65µm dry filmthickness
	Spray	7 m ² per liter @ 65µm dry filmthickness larger surfaces 5 m ² per liter @ 65µm dry filmthickness smaller surfaces
Practicle coverage	Dependent on condition of substrate, loss of material due to factors such as application technique, shape of object, circumstances during application.	
Substrate conditions	Mill scale must be removed. Surface must be clean, degreased, dry, well sanded and free of dust and rust. Remove all salt and other water soluble dirt with fresh water. Remove grease and oil with water and ammonium solution or Epifanes Spraythinner for Paint and Varnish. Remove all rust and loose flakes . Existing coal tar must be at least 7 days old and free of fouling. Soften the coaltar with an aggressive thinner and /or coarsely sand with P60-80.	

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Application advice

Stir well prior to application. The application and drying should occur in well ventilated areas. Always secure sufficient air circulation for supply of fresh air and disposal of solvent fumes in order to avoid health hazards and safety problems. The temperature during application and drying should not be lower than 8°C. Relative air humidity should not exceed 85%. Temperature of object during application and drying should be 3°C above dew point.

Application details

	Air spray	Airless spray	Brush
Thinning volume	15-20 %	5 %	0-5%
Nozzle	1.5 mm – 2.0 mm	0.015 - 0.021 “	
Pressure in bar	2 - 3	150	
Visc. DIN-cup 4 mm	20- 24 sec.	60 - 80 sec.	

Drying times @ 20°C. / 65% RAH and 65 µm dry filmthickness

Dustdry	Recoatable	Launching/antifouling
2 hours	12 hours	5 days

Recommended total filmthickness

Above the waterline 300 µm wet = 150 µm dry = 3 coats
 Below the waterline 500 µm wet = 250 µm dry = 5 coats

Remark regarding fouling

Black Bottom does not contain antifouling properties. To avoid the formation of fouling, two coats Werdol Copperfree or Epifanes Foul Away may be applied on the full Black Bottom system..

Recoatable

Werdol Copperfree
 Epifanes Foul-Away

Note if overcoated with Foul-Away, the first coat might show slight bleeding

Application remarks

On bare steel and coarsely sanded coal tar apply first coat by stiff brush, thinned by 25% with Epifanes Spraythinner for Paint & Varnish. Subsequent coats may be applied by roller, 0-10% thinned with Epifanes Brushthinner for Paint & varnish

Safety

The user of this product should obey all national laws and legislation concerning health, safety and environmental hazard. For more information on health and safety, refer to the Material Safety Data Sheet of this product.

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