

SAXON-GUARD HB-21

DESCRIPTION

Two-component, high-build, polyamine adduct- cured epoxy coating

CHARACTERISTICS

- Salt water resistance
- Anticorrosion properties
- $\ensuremath{\circledast}$ Surface tolerant and abrasion resistant
- Continues to cure even in direct contact with water.
- Long-lasting protection with a single coat applied.
- Resistant to well-designed cathodic protection
- Suitable for application on exterior buried pipes
- Suitable on wet blast or ultra-high pressure water cleaned substrates (damp or dry)

COLOR

White, yellow and black (other colors available on request)

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Number of components	Two
Mass density	1.5 kg/l (12.1lb/US gal)
Volume solids	85 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 122.0 g/kg UK PG 6/23(92) Appendix 3: max. 207.0 g/l (approx. 1.7 lb/US gal) EPA Method 24: 200.0 g/ltr (1.7lb/USgal)
Recommended dry film thickness	150 - 1000 μm (6.0 μm - 40.0 mils) depending on system
Theoretical spreading rate	4.3 m^2/l for 200 (170 ft^2/US gal for 8.0 mils)
Dry to touch	3 hours
Overcoating Interval	Minimum: 3.5 hours Maximum: 14 days
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry

Notes:

- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time





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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Coating performance will depend upon the conditions of the surface to be applied.
- For atmospheric application, abrasive blast to ISO- Sa2½ or minimum SSPC SP- 6, power tool cleaned to ISO- St3 (SSPC SP- 3)or hand tool cleaned to ISO- St2 (SSPC SP- 2) or ultra high pressure water jet to SSPC SP WJ- 2(L) / NACE WJ- 2(L)
- For immersion application: steel; blast cleaned to ISO- Sa2½ (SSPC SP- 10), blasting profile 40 75 μm (1.6 3.0 mils)
- Higher profiles (>75 microns, 3.0 mils) is allowable with appropriate coating thickness.
- If a previous coat is applied it must be dry and free from any contamination.

Substrate temperature and application conditions

♦ Substrate temperature during application should be at least 3°C (5°F) above dew point

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 75:25 (3:1)

- Thinner should be added after mixing the components
- Do not add more thinner than is required by appropriate application property
- Adding too much thinner results in reduced sag resistance and slow curing times.

Induction time

None

Pot life 2 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

<u>Air spray</u>

Recommended thinner THINNER 91-92

Volume of thinner 4 - 8%, depending on required thickness and application conditions

Nozzle orifice 1.5 - 3.0 mm (approx. 0.060 - 0.110 in)

Nozzle pressure 0.2 - 0.4 MPa (approx. 2 - 4 bar; 29 - 58 p.s.i.)





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Airless spray

Recommended thinner THINNER 91-92

Volume of thinner 0 - 8%, depending on required thickness and application conditions

Nozzle orifice Approx. 0.53 - 0.69 mm (0.021 - 0.027 in)

Nozzle pressure 15.0 MPa (approx. 150 bar; 2176 p.s.i.)

Brush/roller

Recommended thinner THINNER 91-92

Volume of thinner 0 - 5%

Cleaning solvent THINNER 90- 53

ADDITIONAL DATA

Spreading rate and film thickness				
DFT	Theoretical spreading rate			
200 µm (8.0 mils)	4.3 m²/l (170 ft²/US gal)			
500 μm (20.0 mils)	1.7 m²/l (68 ft²/US gal)			

Overcoating interval for DFT up to 500 μm (20.0 mils)							
Overcoating with	Interval	-5°C (23°F)	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	36 hours	14 hours	7 hours	3.5 hours	2 hours	1.5 hours
	Maximum	2 months	1.5 months	1 month	28 days	21 days	14 days
epoxy coatings	Minimum	36 hours	14 hours	7 hours	3.5 hours	2 hours	1.5 hours
	Maximum	1 month	28 days	21 days	14 days	7 days	4 days
polyurethanes	Minimum	48 hours	22 hours	14 hours	10 hours	6 hours	4 hours
	Maximum	1 month	28 days	21 days	14 days	7 days	4 days

Note: Surface should be dry and free from any contamination





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Curing time for DFT up to 500 μm (20 mils)				
Substrate temperature	Dry to touch	Dry to handle	Full cure	
-5°C (23°F)	24 hours	48 hours	30 days	
5°C (41°F)	10 hours	24 hours	18 days	
10°C (50°F)	5 hours	16 hours	14 days	
20°C (68°F)	3 hours	8 hours	7 days	
30°C (86°F)	2 hours	5 hours	5 days	
40°C (104°F)	1hour	3 hours	3 days	

Notes:

- For repair of jetties, piling etc. between tides, SAXON -GUARD HB-21 can be immersed within 30 minutes. Whitening can be happened for dark color, but will not affect anti- corrosive properties.
- The curing time is related to the DFT of the paint and ventilation of the drying condition. High DFT and poor ventilation will slow curing
 When total DFT is higher than 1500 μm (60.0 mils), curing times have to be 2 2.5 times in order to obtain sufficient mechanical
- strength.
- Adequate ventilation must be maintained during application and curing.

Pot life (at application viscosity)			
Mixed product temperature	Pot life		
10°C (50°F)	3 hours		
20°C (68°F)	2 hours		
30°C (86°F)	1hour		

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