

OMEGA GUARD SF

Ref 2085 Issue Sep 2016

DESCRIPTION

Two-component, solvent free, amine cured epoxy coating

PRINCIPALS CHARACTERSTICS

- Tank coating for drinking water
- Can be applied by single feed ,airless
- Reduced explosion risk and fire hazard
- Good drying and curing property
- Easy application by air less spray, brush, etc.

COLOR AND GLOSS LEVEL

- white
- gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of component	Two
Mass density	1.3 kg/l
Volume solid	100 %
VOC (supplied)	3.4 g/L
Recommended dry film thickness	250 – 400 µm (10 – 16 mils)depending on the system
Theoretical spreading rate	3.3m ² /l for 300 µm
Dry to touch	5 hours
Over coating interval	Minimum:24hours Maximum: 20days
Full cure after	12days
Shelf life	Base: at least 24 months when stored cool& dry Hardener: at least 24 months when stored cool& dry



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Recommended substrate conditions and temperatures

Carbon steel

- Steel blast cleaned to ISO-SA2 ½, blasting profile 50-100 µm(2-4 mils)
 - If a holding primer is required omega universal primer EP (DFT 50 µm)
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Concrete / Masonry

- Remove grease , oil and other penetrating contaminants according to ASTM D4258
 - Abrade the surface per ASTM D4259 to remove all check surface glaze or laitance ,achieve surface profile ICRI-CSP3 to 5
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SUBSTRATE TEMPERATURE

- Substrate temperature during application and curing should be above 5°C(41°F)
 - Relative humidity during application and curing should not exceed 85%.
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Instruction for use

Mixing ratio by volume base to hardener 77.5:22.5

- Temperature of the mixed base and hardener preferably above 15°C(59°F)
 - Adding to much thinner results in reduced sag resistance and slower cure.
 - NO Thinner to be added
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Induction time

15 minutes



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Pot life

90minutes @20°C (68 °F)

Air less spray

Recommended thinner

No Thinner should be add

Nozzle orifice

0.46 – 0.53 mm

Nozzle pressure

26 – 28MPA

BRUSH / ROLLER

Recommended thinner

No Thinner added

Cleaning thinner

Thinner No 50



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ADDITIONAL DATA

Spreading rate and film thickness	
DFT	Theoretical spreading rate
250 µm (3 mils)	4m ²
300 µm (6 mils)	3.3 m ²
400 µm (8 mils)	2.5 m ²

Curing time for DFT up to 125 µm (5 mils)			
Substrate temperature	Dry to touch	Dry to handle	Full cure
10°C (50°F)	24 hours	4 days	20 days
20°C (68°F)	12 hours	24 hours	12 days
30°C (86°F)	6 hours	16 hours	7 days
40°C (104°F)	2 hours	10 hours	5 days

Pot life at application viscosity	
Mixed product temperature	Pot life
20°C (68°F)	1.5hours
30°C (86°F)	1 hours

SAFETY PRECAUTIONS

- This is a solvent- borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eye

