

SIGMATHERM 540

3 pages

September 2005
Revision of August 2003

DESCRIPTION	one component heat resistant moisture curing silicone aluminum
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> – heat resistant up to 1000°F (540°C) on steel, grit blasted to SSPC SP10/NACE 2 (ISO-Sa2½) – heat resistant up to 750°F (400°C) on rusted steel, power tool cleaned to SSPC SP3 (ISO-St3) – no heat cure necessary between coats – ideal for maintenance of hot surfaces where blasting is impractical – excellent resistance against weathering – also suitable on top of zinc silicate primer
COLORS AND GLOSS	aluminum - eggshell
BASIC DATA AT 68°F	(8.25 lb/US gal = 1 g/cm ³ ; 40.7 ft ² /US gal = 1 m ² /l)
Mass density	9.18 lbs/gal (1.1 g/cm ³)
Solids content	45 ± 2%
VOC (supplied - EPA 24)	max. 427 g/kg (Directive 1999/13/EC, SED) max. 4.0 lb/gal (approx. 478 g/l)
Recommended dry film thickness	1 mil (25 µm)
Theoretical spreading rate	732 ft ² /gal (18 m ² /l) for 1 mil (25 µm)
Touch dry after	45 min.
Overcoating interval	min. 16 hours
Shelf life (cool and dry place)	at least 6 months
Flash point	82°F (28°C)
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	<ul style="list-style-type: none"> – steel; blast cleaned to SSPC SP10/NACE 2 (ISO-Sa2½) – steel; pretreated according to SSPC SP3 (ISO-St3) – suitable zinc silicate primer (e.g. SigmaZinc 158); dry and free from any contamination and zinc salts – substrate temperature should be at least 5°F (3°C) above dew point
INSTRUCTIONS FOR USE	power agitate to uniform consistency

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CONVENTIONAL SPRAY

Recommended thinner no thinner should be added
 Nozzle orifice 0.059" - 0.078" inch (1.5 - 2 mm)
 Nozzle pressure 43 - 57 p.s.i. (= approx. 0.3 - 0.4 MPa or 3 - 4 bar)

BRUSH/ROLLER

for roller application the best results will be obtained by using fine foam type rollers

CLEANING SOLVENT

Sigma thinner 21-06

SAFETY PRECAUTIONS

for paint and recommended thinners see safety sheets 1430, 1431 and relevant material safety data sheets

this is a solvent based 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 eyes

Worldwide availability

Whilst it is always the aim of SigmaKalon Marine & Protective Coatings to supply the same product on a worldwide basis, slight modification of the product is sometimes necessary to comply with local or national rules/ circumstances.

Under these circumstances an alternative product data sheet is used.

REFERENCES

Explanation to product data sheets	see information sheet 1411
Safety indications	see information sheet 1430
Safety in confined spaces and health safety	
Explosion hazard - toxic hazard	see information sheet 1431
Cleaning of steel and removal of rust	see information sheet 1490

