SIGMADUR 540

(SIGMACOVER HS NISO FINISH)

Andrews Coatings Ltd 01902 712286



4 pages

September 2005 Revision of March 2004

DESCRIPTION two component high gloss VOC compliant epoxy acrylic finish

PRINCIPAL CHARACTERISTICS – isocyanate free

colour and gloss retention superior to standard epoxy coatings

non-chalking, non-yellowinglong pot life but quick drying

COLOURS AND GLOSS wide colour range - highgloss

BASIC DATA AT 20°C (1 g/cm³ = 8.25 lb/US gal; 1 m²/l = 40.7 ft²/US gal)

(data for mixed product)

 $\begin{array}{ll} \text{Mass density} & \text{1.3 g/cm}^3 \\ \text{Volume solids} & \text{54} \pm 2\% \\ \end{array}$

VOC (supplied) max. 324 g/kg (Directive 1999/13/EC, SED)

50 - 60 μm

max. 411 g/l (approx. 3.4 lb/gal)

Recommended dry film

thickness

Theoretical spreading rate 10.9 m²/l for 50 µm *

Touch dry after 2 hours Full cure after 7 days

(data for components)

Shelf life (cool and dry place)

Flash point

at least 12 months

base 29°C, hardener 24°C

* see additional data

RECOMMENDED
SUBSTRATE CONDITIONS
AND TEMPERATURES

 previous epoxy coats; dry and free from any contamination and sufficiently roughened if necessary

substrate temperature should be above 5°C and at least 3°C above dew

point during application and curing

INSTRUCTIONS FOR USE mixing ratio by volume: base to hardener 90 : 10

 the temperature of the mixed base and hardener should preferably be above 15°C, otherwise extra solvent may be required to obtain

application viscosity

too much solvent results in reduced sag resistance

- if required, thinner should be added after mixing the components

Induction time none

Pot life 6 hours at 20°C



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AIRLESS SPRAY

Recommended thinner Sigma thinner 91-92

Volume of thinner 0 - 5%, depending on required thickness and application conditions

Nozzle orifice approx. 0.38 - 0.46 mm (= 0.015 - 0.018 in) Nozzle pressure 15 MPa (= approx. 150 bar; 2130 p.s.i.)

AIR SPRAY

Recommended thinner Sigma thinner 91-92

Volume of thinner 5 - 10%, depending on required thickness and application conditions

Nozzle orifice 1 - 1.5 mm

Nozzle pressure 0.3 - 0.4 MPa (= approx. 3 - 4 bar, 43 - 57 p.s.i.)

BRUSH/ROLLER

Recommended thinner Sigma thinner 91-92

Volume of thinner 0 - 5%

CLEANING SOLVENT Sigma thinner 91-92

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 vapour as well as contact between the wet paint and exposed

skin or eyes

avoid at all times inhalation of aerosol spraymist

ADDITIONAL DATA

Film thickness and spreading rate

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theoretical	10.9	9.1	
spreading rate m ² /l			
dft in µm	50	60	



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Overcoating table

substrate temperature	5°C	10°C	20°C	30°C
minimum interval	24 hours	16 hours	8 hours	6 hours
maximum interval	no limitation, provided that the surface is free from any contamination			

Curing table at 50 µm for SigmaDur 540

substrate temperature	dry to handle	full cure
5°C	22 hours	14 days
10°C	16 hours	12 days
20°C	10 hours	7 days
30°C	6 hours	4 days

adequate ventilation must be maintained during application and curing (please refer to sheet 1433 and 1434)

Pot life (at application viscosity)

10°C	10 hours
20°C	6 hours
30°C	3 hours

Worldwide availability

Whilst it is always the aim of Sigma 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
Safety indications
Safety in confined spaces and health safety
Explosion hazard - toxic hazard
see information sheet 1411
see information sheet 1430
see information sheet 1431



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LIMITATION OF LIABILITY

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the products made by Sigma Coatings, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

Sigma Coatings has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Sigma Coatings does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The data contained herein are liable to modification as a result of practical experience and continuous product development. This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product.

The English text of this document shall prevail over any translation thereof.

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