4 pages

September 2005 Revision of April 2005

**DESCRIPTION** two component aliphatic acrylic polyurethane finish

PRINCIPAL CHARACTERISTICS - ready for use

good recoatability

good resistance to atmospheric exposure

good colour and gloss retentionnon-chalking, non-yellowing

cures at temperatures down to -5°C

**COLOURS AND GLOSS** white (other colours on request) - gloss

**BASIC DATA AT 20°C** (1 g/cm<sup>3</sup> = 8.25 lb/US gal; 1 m<sup>2</sup>/l = 40.7 ft<sup>2</sup>/US gal)

(data for mixed product)

 $\begin{array}{ll} \text{Mass density} & \text{1.3 g/cm}^3 \\ \text{Volume solids} & \text{52} \pm 2\% \end{array}$ 

VOC (supplied) max. 334 g/kg (Directive 1999/13/EC, SED)

max. 430 g/l (approx. 3.6 lb/gal) 50 µm depending on system

Recommended dry film

thickness

Theoretical spreading rate 10.4 m<sup>2</sup>/l for 50 µm \*

Touch dry after 1 hour

Overcoating interval min. 6 hours \*

max. unlimited

Full cure after 4 days \*

(data for components)

Shelf life (cool and dry place)

Flash point

at least 24 months

base 33°C, hardener 42°C

\* see additional data

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES  previous coat; (epoxy or polyurethane) dry and free from any contamination and sufficiently roughened if necessary

 during application and curing a substrate temperature down to -5°C is acceptable provided the substrate is dry and free from ice

substrate temperature should be at least 3°C above dew point

- maximum relative humidity during application and curing is 85%

 premature exposure to early condensation and rain may cause colour and gloss change



September 2005

#### INSTRUCTIONS FOR USE

mixing ratio by volume: base to hardener 88:12

- the temperature of the mixed base and hardener should preferably be above 10°C, otherwise extra solvent may be required to obtain application viscosity
- too much solvent results in reduced sag resistancethinner should be added after mixing the components

Induction time none

Pot life 5 hours at 20°C \*

\* see additional data

**AIRLESS SPRAY** 

Recommended thinner Sigma thinner 21-06

Volume of thinner 3 - 5%, depending on required thickness and application conditions

Nozzle orifice approx. 0.44 - 0.49 mm (= 0.017 - 0.019 in)Nozzle pressure 20 MPa (= approx. 200 bar; 2800 p.s.i.)

**AIR SPRAY** 

Recommended thinner Sigma thinner 21-06

Volume of thinner 3 - 5%, 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 21-06

Volume of thinner 0 - 5%

**CLEANING SOLVENT** Sigma thinner 90-53

**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

contains a toxic polyisocyanate curing agent

avoid at all times inhalation of aerosol spraymist

ADDITIONAL DATA Film thickness and spreading rate

theoretical spreading rate m²/l	10.4	8.7	
dft in µm	50	60	



September 2005

### Overcoating table for SigmaDur products

substrate	-5°C	0°C	10°C	20°C	30°C	40°C
temperature						
minimum	24	16	8	6	5	3
interval	hours	hours	hours	hours	hours	hours
	10	II				
maximum	12 mon	itns				

surface should be dry and free from any contamination

## Curing table

substrate temperature	dry to handle	full cure
-5°C	24 hours	15 days
0°C	16 hours	11 days
10°C	8 hours	6 days
20°C	6 hours	4 days
30°C	5 hours	3 days
40°C	3 hours	2 days

- adequate ventilation must be maintained during application and curing (please refer to sheet 1433 and 1434)
- premature exposure to early condensation and rain may cause colour and gloss change

## Pot life (at application viscosity)

10°C	7 hours
20°C	5 hours
30°C	3 hours
40°C	2 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
Safe working in confined spaces
Directives for ventilation practice
See information sheet 1431
See information sheet 1431
See information sheet 1433
See information sheet 1433
See information sheet 1433
See information sheet 1433





September 2005

#### **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 continous 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.

DS 7536

238760 white 7000001400 238762 white 7000002200

