

A two sheet issue

DESCRIPTION	two component, glassflake reinforced solvent free epoxy floor coating as intermediate or final coat for Sigma Floorguard System.
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> - excellent resistance to mechanical stress and impact - excellent intercoat adhesion - suitable for medium exposed floors - anti-skid aggregates can be added - excellent water and chemical resistance - excellent abrasion resistance - can be applied by heavy duty single feed airless spray equipment - easy to clean
COLOUR AND GLOSS	limited colors – gloss
BASIC DATA AT 20 °C	(for mixed product)
Mass density	approx. 1.3g/cm ³
Solids content	approx. 100% by volume
Recommended dry film thickness	400 - 500 μm
Theoretical spreading rate	2.5 m ² /ltr for 400μm, depending on the nature, roughness and condition of the substrate and the application method employed
Touch dry after	approx. 8 hours
Overcoating interval	min. 24 hours* max. 20 days*
Full cure after	5 days*
Shelf life (cool,dry place)	12 months
Flashpoint	base and hardener above 65°C
Available pack size	5 ltr, 20 ltr
*see additional data	please turn

RECOMMENDED SUBSTRATE CONDITIONS

- previous coating (Sigma Floorguard Primer) must be dry and free from any contamination
- substrate and ambient temperature should be minimum 10 °C during application and curing
- relative humidity should be not exceed 85% during application and curing.
- substrate temperature should be minimum 10 °C above the dew point during application and curing

INSTRUCTIONS FOR USE

- mixing ratio: base : hardener
by volume: 80 : 20
- materials temperature should be minimum 10°C
- mix base with a variable speed mechanical mixer thoroughly
- add hardener and mix with a variable speed mechanical mixer until homogenous.
- mixer speed should not exceed 800 rpm to avoid air entrapment

Induction time at 20 °C

none

Potlife at 20 °C

1 hours*

METHOD OF APPLICATION

Tools

roller, trowel

Recommended thinner

no thinner to be added

application by trowel

for application pour the mixture on the suitably prepared subfloor and spread it evenly by trowel following by rolling with a rough textured hard cord roller

Airless spray

- heavy duty single feed airless spray equipment preferably 60:1 pump ratio and suitable high pressure hoses.
- length of hoses should be as short as possible.

Recommended thinner

no thinner should be added

Nozzle orifice

approx. 0.53 mm (=0.021 in)

Nozzle pressure

at 30 °C (paint temperature) min. 22 MPa (=approx. 220 bar; 3000 p.s.i)

Cleaning solvent

Sigma Thinner 90-53

- all application equipment must be cleaned immediately after use
- paint inside the spraying equipment must be removed before the potlife time has been expired.

see sheet two

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PHYSICAL DATA

For cured material (7days)

Test	Standard	Result
Tensile Strength	(ASTM C307)	17.2 N/mm ²
Flexural Strength	(ASTM C580)	32.4 N/mm ²
Compressive Strength	(ASTM C579)	63.5 N/mm ²

SAFETY PRECAUTIONS



see safety sheet 1570 for information on LEL and TLV values

ADDITIONAL DATA

overcoating table

Sigma Floorguard Coating GF

Sigma Floorguard Finish

Substrate temperature	20 °C	30 °C	40 °C
minimum interval	24 hours	16 hours	12 hours
maximum interval	20 days	14 days	7 days
minimum interval	24 hours	16 hours	12 hours
maximum interval	7 days	7 days	7 Days

surface should be dry and free from any contamination for intervals exceeding the maximum overcoating interval.

please contact Sigma paints for advice and assistance.

Curing table

Substrate temperature	Dry to handle	Full cure
20 °C	16 hours	5 days
30 °C	10 hours	3 days
40 °C	8 hour	2 days

adequate ventilation must be maintained during application and curing

please turn

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***Pot life at application
viscosity**

Paint temperature	Pot life
20 °C	60 min.
30 °C	45 min.
40 °C	25 min.

- due to exothermic reaction, temperature during and after mixing may increase

REFERENCES

explanation to product data sheets on information sheet 1551