

A two sheet issue

<b>DESCRIPTION</b>	two component, solvent free, high build epoxy floor coating as intermediate or final coat in Sigma Floorguard system.
<b>PRINCIPAL CHARACTERISTICS</b>	<ul style="list-style-type: none"> <li>- excellent resistance to mechanical stress and impact</li> <li>- excellent intercoat adhesion</li> <li>- suitable for medium traffic conditions</li> <li>- anti-skid aggregates can be added</li> <li>- excellent water and chemical resistance</li> <li>- excellent abrasion resistance</li> <li>- easy to clean</li> </ul>
<b>COLOUR AND GLOSS</b>	limited attractive colors, see Sigma Floorgurad color reference – gloss
<b>BASIC DATA AT 20 °C</b>	( for mixed product )
<b>Mass density</b>	approx. 1.46g/cm <sup>3</sup>
<b>Solids content</b>	approx. 100% by volume
<b>Recommended dry film thickness</b>	250 - 500 μm
<b>Theoretical spreading rate</b>	4 m <sup>2</sup> /ltr for 250 μm, depending on the nature, roughness and condition of the substrate and the application method employed
<b>Touch dry after</b>	approx. 5 hours
<b>Overcoating interval</b>	min. 24 hours* max. 7 days*
<b>Full cure after</b>	7 days*
<b>Shelf life (cool,dry place)</b>	12 months
<b>Available pack size</b>	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 not exceed 85% during application and curing
- substrate temperature should be above 10 °C and at least 3 °C above the dew point during application and curing

## INSTRUCTIONS FOR USE

- mixing ratio:                    base : hardener  
by volume:                        75 : 25
- materials temperature should be minimum 10°C
- mix base with a variable speed mechanical mixer
- add hardener and mix with mechanical mixer until homogeneous.
- mixer speed should not exceed 800 rpm to avoid air entrapment

**Induction time at 20 °C**

none

**Pot life at 20 °C**

35 min\*

## METHOD OF APPLICATION

### Tools

roller, trowel

### **Recommended thinner**

no thinner to be added

### **application by trowel**

- pour the mixed product on to a suitably prepared and primed floor
- spread evenly by trowel followed by rolling with a spiked roller to release the air.

### **application on sloping areas/ramps**

Sigma Floorguard Thix 0687 must be added (max. 4% by volume) after mixing of base and hardener

### Cleaning solvent

Sigma thinner 90-53

see sheet two

Sheet two

## PHYSICAL DATA

For cured material

Test	Standard	Result
Tensile Strength	ASTM C307	23.6 N/mm <sup>2</sup>
Flexural Strength	ASTM C580	50.8 N/mm <sup>2</sup>
Compressive Strength	ASTM C579	136.5 N/mm <sup>2</sup>
Adhesive Strength	ASTM D4541	> 3 N/mm <sup>2</sup>
Taber abrasion CS17/1000gm/1000cycles	ASTM D4060	60 – 70 mg
Impact resistance	ISO 6272:93	pass
Crack bridging	ASTM C836:95	3.00 mm
Chemical resistance	see chemical resistance sheet in Floorguard binder	

## SAFETY PRECAUTIONS



see safety sheet 1570 for information on LEL and TLV values

## ADDITIONAL DATA

overcoating table

Substrate temperature	20 °C	40 °C
minimum interval	1 day	16 hours
maximum interval	7 days	7 days

surface must be dry and free from contamination for intervals exceeding the maximum overcoating interval, Please contact Sigma for advice and assistance.

Curing table

Substrate temperature	Touch Dry	Dry to handle	Full cure
20 °C	5 hours	16 hours	7 days
40 °C	3 hours	7 hour	3 days

adequate ventilation must be maintained during application and curing

\*Pot life at application viscosity

Paint temperature	Pot life
20 °C	35 min
40 °C	15 min

## REFERENCES

explanation to product data sheets on information sheet 1551 and 1560