SIGMA FLOORGUARD FLOORING | 0674

A two sheet issue

DESCRIPTION	three component, high performance solvent free, self leveling epoxy floor coating, as intermediate or final coat for Sigma Floorguard system.
PRINCIPAL CHARACTERISTICS	- excellent resistance to mechanical stress and impact - suitable for medium to heavy traffic conditions - excellent abrasion resistance - anti-skid aggregates can be added - excellent water and chemical resistance - excellent flow and leveling - can be applied at varying thickness - easy to clean
COLOUR AND GLOSS	limited attractive colors, see Sigma Floorguard color reference – gloss
BASIC DATA AT 20 °C	(for mixed product)
Mass density	approx. 1.69 g/cm^3
Solids content	approx. 100% by volume
Recommended dry film thickness	1mm – 4mm
Theoretical spreading rate	Approx 1 m^2/ltr for 1mm, 0.5 m^2/ltr for 2mm, depending on the nature, roughness and condition of the substrate and the application method employed
Touch dry after	approx. 7 hours
Overcoating interval	min. 24 hours* max. 7 days*
Full cure after	7 days*
Shelf life (cool,dry place)	12 months
Available pack size	5 ltr, 20 ltr

*see additional data

please turn

RECOMMENDED SUBSTRATE CONDITIONS

- previous coating (Sigma Floorguard Primer) must be sound, dry free from any contamination
- substrate and ambient temperature should be minimum 10 ºC during application and curing
- relative humidity should be 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 : filler
  by volume: 61 : 20 : 19
- materials temperature should be minimum 10ºC
- mix base with a variable speed mechanical mixer thoroughly
- add hardener and mix with a variable speed mechanical mixer until homogenous.
- add the filler while stirring and stir thoroughly for 2 minutes until it is homogeneous.
- mixer speed should not exceed 800 rpm to avoid air entrapment

Induction time at 20 °C none

Potlife at 20 °C 40 min*

METHOD OF APPLICATION

Tools spiked roller, trowel and Swedish knife

Recommended thinner no thinner to be added

for application pour an appropriate amount of the mixture on the suitably prepared subfloor and spread it evenly by trowel or Swedish knife use a spiked roller for avoiding air entrapment.

Note: maximum permissible slope is 5 mm/m special work methods are necessary when this slope is exceeded.

for slopping areas/ramps
please consult Sigma Technical Support

Cleaning solvent Sigma thinner 90-53

see sheet two

Sheet two

PHYSICAL DATA

For cured material

Test	Standard	Result
Tensile Strength	ASTM C307	22.1 N/mm2
Flexural Strength	ASTM C580	54.8 N/mm^2
Compressive Strength	ASTM C579	96.6 N/mm^2
Adhesive Strength	ASTM D4541	> 4.5 N/mm^2
Taber abrasion CS17/1000gm/1000cycles	ASTM D4060	60 – 70 mg
Impact resistance	ISO 6272:93	pass
Crack bridging	ASTM C836:95	2.23 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
minimum interval	7 days	4 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	Touch Dry	Dry to handle	Full cure
20 °C	7 hours	18 hours	7 days
40 °C	4 hours	8 hour	4 days

adequate ventilation must be maintained during application and curing

***Potlife at application viscosity**

Paint temperature	Pot life
20 °C	40 min
40 °C	30 min

REFERENCES

explanation to product data sheets on information sheet 1551