

SIGMA CULTURA EP IMPREGNATING PRIMER

4 pages

13 May 2004

DESCRIPTION	two component solvent free epoxy primer						
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> - primer for Sigma Cultura floor coating systems (indoors and outdoors) - suitable for concrete-, sand cement- and calcium sulfate bonded floors - good impregnating properties (penetration and saturation of the substrate) - improvement of surface hardness - excellent adhesion 						
COLOURS AND GLOSS	semi transparent, grey - satin gloss						
BASIC DATA AT 20°C	(1 g/cm ³ = 8.25 lb/US gal; 1 m ² /l = 40.7 ft ² /US gal) (data for mixed product)						
Mass density	1.19 g/cm ³						
Volume solids	100%						
VOC (supplied)	max. 0 g/l (0 lb/gal)						
Theoretical spreading rate	2.0 m ² /l (1.7 m ² /kg) - 5.0 m ² /l (4.2 m ² /kg) depending on the roughness and porosity of the substrate						
Resistant to tread	16 hours *						
Overcoating interval	min. 16 hours * max. 7 days *						
	(data for components)						
Shelf life (cool and dry place)	at least 12 months						
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	<ul style="list-style-type: none"> - concrete, sand cement sub floors and calcium sulfate bonded floors; sound, dry and free from laitance and any contamination - moisture content of cement bonded floors should not exceed 4% (Carbide method) - moisture content of calcium sulfate floors should not exceed 0.5% (Carbide method) - substrate and ambient temperature should be between 10°C and 30°C during application and curing - relative humidity should not exceed 85% - substrate temperature should be at least 5°C above dew point 						
INSTRUCTIONS FOR USE	<table border="0" style="width: 100%;"> <tr> <td style="padding-right: 20px;">mixing ratio by volume:</td> <td style="padding-right: 20px;">base to hardener</td> <td>69.6 : 30.4</td> </tr> <tr> <td>mixing ratio by weight:</td> <td>base to hardener</td> <td>74.0 : 26.0</td> </tr> </table> <ul style="list-style-type: none"> - material temperature should be between 10°C and 30°C - mix base and hardener with a mechanical mixer thoroughly for 3 minutes until homogeneous - re-fill the material to another can and mix for 1 minute 	mixing ratio by volume:	base to hardener	69.6 : 30.4	mixing ratio by weight:	base to hardener	74.0 : 26.0
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mixing ratio by weight:	base to hardener	74.0 : 26.0					
Induction time	none						
Pot life	40 minutes at 20°C *						

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APPLICATION

Tools brush, roller - for smooth, normal absorbing substrates
plastering trowel - for rough, strong absorbing substrates

Recommended thinner no thinner should be added

Note 1:

To achieve sufficient adhesion between Sigma Coltura EP Impregnating Primer and the following coating, it is recommended to give Sigma Coltura EP Impregnating Primer a slight sprinkle with silver sand (0.1 - 0.3 mm). In case of insufficient roughness after curing grinding is recommended.

Note 2:

In case Sigma Coltura EP Impregnating Primer is to be overcoated with a solvent based coating, 48 hours curing are recommended at low temperatures.

CLEANING SOLVENT

Sigma thinner 90-53

SAFETY PRECAUTIONS

for paint and recommended thinners see safety sheets 1430, 1431 and relevant material safety data sheets

although this is a solvent free paint, care should be taken to avoid inhalation of spray mist as well as contact between the wet paint and exposed skin or eyes

ADDITIONAL DATA

Overcoating table for Sigma Coltura EP Impregnating primer

substrate temperature	10°C	15°C	20°C	25°C
minimum interval	30 hours	23 hours	16 hours	11 hours
maximum interval	7 days	7 days	7 days	5 days

- surface should be dry and free from any contamination
- for intervals exceeding the maximum overcoating interval, the surface has to be roughened sufficiently before overcoating

Curing table

substrate temperature	tack free	resistant to tread	full cure
10°C	16 hours	28 hours	14 days
15°C	12 hours	24 hours	10 days
20°C	8 hours	18 hours	7 days
25°C	6 hours	13 hours	5 days

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Pot life

10°C	70 min.
15°C	50 min.
20°C	35 min.
30°C	25 min.

Worldwide availability

Whilst it is always the aim of PPG Protective & Marine 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	see information sheet 1411
Safety indications	see information sheet 1430
Safety in confined spaces and health safety	
Explosion hazard - toxic hazard	see information sheet 1431
Safe working in confined spaces	see information sheet 1433
Directives for ventilation practice	see information sheet 1434
Floor coating systems for heavy interior exposure	see system sheet 4234
Floor coating systems for light interior exposure	see system sheet 4230
Floor coating systems for light to medium interior exposure	see system sheet 4231
Floor coating systems for medium interior exposure	see system sheet 4232
Floor coating systems for heavy interior exposure	see system sheet 4234
Floor coating systems for light to medium exterior exposure	see system sheet 4236
Floor coating systems for medium exterior exposure	see system sheet 4237
Floor coating systems for heavy interior and exterior exposure	see system sheet 4239

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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 Sigma Coatings products made by PPG Protective & Marine 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.

PPG Protective & Marine 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. PPG Protective & Marine 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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