

January 2011

DESCRIPTION

superior quality decorative exterior waterborne protection based on acrylic resins with NPS[®] technology (Nanometric Painting System)

PRINCIPAL CHARACTERISTICS

- for exterior or interior use
- certified anti carbonation coating
- alkali resistant
- superior colour retention properties
- superior opacity
- superior adhesive and cohesive properties
- superior resistance to UV radiation
- superior resistance to dust and sand pick up
- superior resistance to the effects of moisture
- easy to apply
- conforms to Environmental Specifications

COLOUR AND GLOSS

see Sigma Standard Colour Selection – flat

BASIC DATA AT 20 °C

Mass density

approx. 1.35g/cm³

Solids content

approx. 64%± 2% by volume depending on colours

Theoretical spreading rate

approx. 12.8m²/ltr @ 50µm
depending on the nature and condition of the substrate and the application method employed

Touch dry after

approx. 30 minutes

Overcoating interval

min. 2 hours
max. no limitation

Shelf life (cool,dry place)

18 months

Flashpoint

above 65 °C

Available pack size

1 usg, 15 ltr

RECOMMENDED SUBSTRATE CONDITIONS

- primed substrates**
- dry and clean primed concrete, cement render and plaster
 - dirt, dust and other contamination must be removed

Please turn

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RECOMMENDED SUBSTRATE CONDITIONS

previously painted substrates

- free from defective or poorly adhering paint films
- wash intact or remaining paint films with a 3% ammonia solution
- not recommended over glossy or solvent borne paint types.

SYSTEM SPECIFICATION

Recommended Primers

- 0907 Sigma Guardian Primer

Recommended Fillers

- 0908 Sigma Guardian Filler*

* in case a filler is used proper sanding followed by one coat of 0804 Sigmaxfix Primer must be used before applying Sigma Guardian Nano

Recommended Finish

- applied in two coats @ 30 - 50 µm dft per coat

INDEPENDENT TESTS

- University of Dortmund

Carbon Dioxide Diffusion

- DIN EN 1062-6

SD CO₂ @50µm < 200m

Water Vapor Diffusion

- DIN EN ISO 53 122-1

SD H₂O @50µm = 0.1m

Water Absorption

- DIN EN 1062-3

WA= 0.06kg/ m² - h 0.5

Weathering /Colour Stability

- Classified as Superior

Test Report T1-230-1

INSTRUCTIONS FOR USE

BRUSH AND ROLLER

Recommended thinner

sweet water

Volume of thinner

approx. 0 - 5%

AIRLESS SPRAY

Recommended thinner

sweet water

Volume of thinner

approx. 5 - 10%

Nozzle orifice

approx. 0.46 - 0.53 mm (0.018 -0.021 inch)

Nozzle pressure

165 bar (approx. 2300 p.s.i.)

SAFETY PRECAUTIONS



see safety sheets 1570 and 1571 for information on LEL and TLV values

ENVIRONMENTAL



Complies with VOC specifications such as LEED
VOC < 50g/l

REFERENCES

explanation to product data sheets on information sheet 1551