

# Nespri-TEC System

## Nespri® Silan

**Special silicone resin based interior paint for efficient coating using the Nespri-TEC spraying method.**

### Product Description

#### Field of Application:

Applicable in special mist-free Nespri-TEC spraying method. Highly covering interior silicone resin based paint for matt, scrub-resistant coatings on walls and ceilings. Due to the long workability time, the coat may be treated easily by paint roller, avoiding lapping even in adverse light conditions (sidelight).

#### Properties:

- Efficient, mist-free application using the special Nespri-TEC spraying method.
- Emission-minimised, solvent-free and free of softeners.
- Free of fogging-active substances.
- Water-thinnable.
- Diffusion-capable.
- $s_d$ -value < 0.1 m.
- Excellent covering power.
- Excellently repairable.
- Due to the high covering properties in the majority of cases one application will be sufficient.

#### Characteristics to DIN EN 13 300:

- **Wet abrasion:** Class 2, corresponds as scrub-resistant to DIN 53 778.
  - **Contrast ratio:** Opacity / coverage Class 1, with a usage of 6 m<sup>2</sup>/lit. or 170 ml/m<sup>2</sup>.
  - **Gloss level:** matt (dead flat/matt)
  - **Maximum particle size:** fine (<100 µm)
- Tinting may cause variations.

#### Vehicle:

Combination of silicone resin emulsion and special synthetic dispersion.

#### Density:

Approx. 1.45 g/cm<sup>3</sup>

#### Packaging

##### Standard product:

- 25 litres hobbock
- 120 litres barrel
- 220 litres Quick-Box

##### ColorExpress:

15 litres

#### Colour:

White. Can be tinted with CaparolColor or AVA – Amphibolin Colourants. White Nespri® Silan material can be mixed in the nuances of CaparolColor. Self-tinted material must be prepared in advance and mixed in order to avoid differences of shade.

Spray-mist formation may possibly be increased when using self-tinted material. Delivery of individual shades on request. Check the tinted material prior to the application to avoid differences in shade. For covering connected surfaces always use material with the same batch number.

**Nespri® Silan** can be tinted via the ColorExpress machine system in current colour collections. Brilliant, intensive tints, e.g. yellow, orange, red, etc., have a lower covering power. It is therefore recommended to apply a first coat in a similar hiding pastel tint, based on white. Possibly a second finishing coat may be necessary.

#### Certificate:

The Fraunhofer Wilhelm-Klauditz-Institute (WKI) has audited the inoffensive application for interior use. The material is certified with German TÜV quality mark »pollutant-tested / supervised manufacturing process«. German certificate is available on request.



#### Please Note (Status as at May 2008):

Keep out of reach of children. Protect eyes and skin from paint splashes. In case of contact with eyes or skin, rinse immediately with plenty of water. Do not breathe spray dust. Do not empty into drains, water courses and onto the ground. Further information: See Safety Data Sheets.

#### Storage:

Cool, but frost-free.

#### Disposal:

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures. In Germany: Only completely emptied packaging should be given for recycling. Dispose of packaging with residues of liquid material as disposal of water-based paints, dried material as hardened paints or via domestic waste.

#### Product Code Paints and Enamels:

M-SF01

#### Substances of Content - Declaration:

Polyvinyl acetate resin dispersion, polysiloxane, titanium dioxide, silicates, water, additives, preservative.



## Application

### System of Application

in special Nespri-TEC spraying method:  
One uniform coat of Nespri® Silan, generously applied with special Nespray Airless unit and immediately and uniformly rolled with a standard short-fibre paint roller (12-16 mm). On high-contrast, highly or unequally absorbent surfaces a preliminary priming coat has to be applied.

### Method of Application:

Only to be applied with special Nespray Airless equipment.

### Spray Application:

For surfaces: spray angle 30° / nozzle: special Nespray double nozzle 0.016 – 0.019"; for trimming: spray angle 20° / special Nespray nozzle 0.013".

If a distance of 30 cm to the substrate cannot be guaranteed, a nozzle extension from Wagner Inc. should be used.

The material temperature is automatically adjusted by the Nespray airless unit.

Shut down pressure (closed spray gun) is regulated on the Nespray airless unit in the blue marked area. Spraying pressure (opened spray gun) is then displayed in the green marked area.

Clean tools immediately after use with water.

Other coating materials, especially primers, can also be applied with Nespray airless unit, but with such products a mist-free application cannot be guaranteed. They should be applied with corresponding precautions.

### Consumption:

Approx. 170 ml/m<sup>2</sup> per coat on smooth substrates, on rough-textured surfaces correspondingly more.

The exact rate of consumption is best established by a trial coating.

### Minimum Temperature for Application and Drying:

+5 °C for material, substrate, and ambient air.

### Drying Time:

At +20 °C and 65% relative humidity surface-dry and recoatable after 4 – 6 hours. Completely dry and ready for stress after approx. 3 days.

Lower temperatures and higher humidity extend the drying time.

### Note:

To avoid lapping, the material should be applied wet-on-wet and without interruptions. Due to the use of Caparol-Tiefgrund TB in the interiors, a typical solvent odour is released, hence proper ventilation must be provided during the application.

Use non-aromatic, low-odour AmphiSilan-Putzfestiger in sensitive areas.

### Compatibility with other Paint Materials:

Do not mix with other paint materials except AVA or CaparolColor.

## Suitable Substrates and their Preparation

**The substrate must be sound, dry, clean, and free from all materials that may prevent good adhesion.**

In Germany: Follow VOB, part C, DIN 18 363, paragraph 3.

### Renderers/Plasters:

**Class P II Lime-Cement Mortars**

**Class P III Cement Mortars:**

Firm renderers/plasters with normal absorbency require no preliminary treatment.

Prime highly porous, sanding or absorbent renderers/plasters with OptiGrund E.L.F. or CapaSol LF.

### Gypsum and Ready-Mixed Gypsum

**Plasters of Mortar Group P IV:**

Priming coat with Caparol-Haftgrund / Caparol Primer Interior or AmphiSilan Grundierfarbe Nespri-TEC. Sandpaper sintered gypsum renderers/plasters, remove dust, and prime with Caparol-Tiefgrund TB.

### Gypsum Building Boards:

Prime absorbent boards with OptiGrund E.L.F. or Caparol-Tiefgrund TB.

Prime highly compact, smooth boards with Caparol-Haftgrund / Caparol Primer Interior or AmphiSilan Grundierfarbe Nespri-TEC to promote bonding.

### Gypsum Plaster Boards:

Grind off burrs. Soft and sandpapered gypsum areas (spots of repairs) must be primed and strengthened with Caparol-Tiefgrund TB. Prime with Caparol-Haftgrund / Caparol Primer Interior or AmphiSilan Grundierfarbe Nespri-TEC, OptiGrund E.L.F. or with CapaSol LF.

Boards containing water-soluble and discolouring substances must be primed with Caparol AquaSperrgrund fine.

In Germany follow BFS Data Sheet No. 12.

### Concrete:

Remove remnants of releasing agents and loose chalking or sanding materials.

### AAC:

Prime autoclaved aerated concrete with a 1 : 3 mixture of Capaplex and tap water.

### Fair-Faced Brick and

**Sandlime Brick Masonry:**

No preliminary treatment required.

### Sound Existing Coatings:

Matt, slightly absorbent coatings may be treated without a preliminary preparation. Sandpaper glossy surfaces and enamel coatings. Prime with Caparol-Haftgrund / Caparol Primer Interior or AmphiSilan Grundierfarbe Nespri-TEC.

### Unsound Existing Coatings:

Remove unsound coatings of enamels, dispersion paints or synthetic resin-bound renderers/plasters completely.

Prime slightly absorbent, smooth surfaces with Caparol-Haftgrund / Caparol Primer Interior or AmphiSilan Grundierfarbe Nespri-TEC.

Prime highly porous, sanding or absorbent substrates with OptiGrund E.L.F. or CapaSol LF.

Remove unsound mineral coatings by mechanical means and remove dust.

Prime with Caparol-Tiefgrund TB.

### Distemper Paints:

Wash off the coating completely and prime with Caparol-Tiefgrund TB.

### Unpainted Wood-Chip, Ingrain or Embossed Wallpapers:

No preliminary treatment required.

### Non-Adherent Wallpapers:

Remove the wallpapers completely and wash off glue and remnants of lining. Prime the substrate with Caparol-Tiefgrund TB.

### Mildewed Surfaces:

Remove organic / mould growth by wet cleaning, then treat the surface with Capatox or FungiGrund and allow to dry well. Prime according to the type and condition of the substrate.

Apply a finishing coat of Indeko-W, Malerit-W or Fungitex-W on badly infested surfaces in compliance with legal and official regulations (follow e.g. Biocidal Products Directive and Ordinance on Hazardous Substances).

### Surfaces Stained by Nicotine, Water, Soot or Fat/Grease:

Wash off nicotine, soot or fat/grease stains with water, adding a fat-dissolving household cleaner, and allow the surface to dry well. Clean dried water stains with a dry brush. Prime with insulating Caparol-AquaSperrgrund fine.

(Technical Information No. 384).

Apply a finishing coat of Caparol IsoDeck on highly soiled surfaces (Technical Information No. 848).

### Wood and Derivative Wood Products:

Coat with water-thinnable, environmentally sound Capacryl acrylic enamels or with Capadur Color.

### Small Defects:

After having completed the necessary preparations, repair small defects with Caparol-Akkordspachtel in accordance with our instructions, and if necessary, prime subsequently.


## Advice

## Technical Assistance

As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries.

We will describe appropriate working methods, if a substrate not specified above is to be coated.

### Customer Service Centre:

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## Technical Information No. 148 - Revised: May 2008

All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No. 148 Nespri-TEC-System Nespri® Silan - issued: May 2008

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