

Technical Data Sheet
Number :
Effective Date : 01/02/2020

SILANE HYBRID SH-93-2K SF CLEAR



Silane Top Coat Solvent Free

PRODUCT DESCRIPTION

SILANE HYBRID SH-93-2K SF Clear is a two components solventfree modified silane hybrid floor coating with excellent flow and good penetration. Can be applied for sealer and top coat

FIELDS OF APPLICATION

- Workshop area
- Showroom
- Clean room
- 3D clear topping
- Car Park
- Top table

ADVANTAGES

- Solvent free, low odor
- Smooth, seamless and gloss finish
- Excellent flow and easy to apply
- Dust-proof and easy to clean
- Good abrasion resistant and excellent adhesion
- Chemical Resistant
- Fungus and biological resistant

TECHNICAL DATA

Type	: Two component solvent free silane hybrid floor topping
Color	: As shown in the color card
Finish	: Glossy
Solid by volume (mixture)	: $\pm 99\%$
Specific gravity (mixture)	: $\pm 1.15 \text{ gr/cc}$
Material consumption	: 0.13 kg-set/m^2 for ± 100 microns DFT
Drying time (30°C)	:
- Surface dry	: 4 hours
- Hard dry	: 20 hours
- Full cure	: 7 days
- Open traffic	: 24 hours for light traffic and 7 days for vehicular traffic
Packaging	: 5 and 20 kg-set
Storage stability	: One year in cool and dry storage and in original not opened box.
Mixing ratio by weight	: Comp A : B = 2 : 1 w/w
Pot life(30°C)	: 30 minutes
Application method	: Epoxy roll, spiked roll
Re-coating interval (30°C)	: 12 - 16 hours until 7 days
Application temperature	: 25 - 35 °C
Humidity maximum	: 80 % RH
Provide adequate ventilation during application and drying	



TEST PERFORMANCE DATA

Item	: Result	Standard Test
Compressive strength	: > 50 N/mm ²	BS-6319 Part 2
Bonding strength	: > 2 N/mm ² concrete failure	ASTM D-4541
Abrasion resistant	: 0.009 gr loss	ASTM D-4060
Flexural strength	: > 30 N/mm ²	ASTM C-580
Impact resistant	: 50 cm (2 kg)	ASTM D-2794
Hardness	: 139 osc in 7 days	ASTM D-4336 (Shore D)
Flash point	: 90°C	Setaflash
Scratch resistant	: 34 x	Crock meter
Gloss level	: 85 - 95 %	Gloss meter
Water resistant	: Excellent	
Solvent resistant	: Excellent*	
Chemical resistant	: Excellent*	
Pot life	: 30 minutes (30°C)	
Temperature resistant	: 0 - 80°C	
Flow ability	: Excellent	

* consult with Propan for solvent and chemical list

INSTRUCTION FOR USE**Surface Preparation**

Compressive strength of concrete floor not less than 25 N/mm² in more than 28 days. Moisture content should be less than 5% and the surface temperature must be at least 3°C above current dew temperature. Remove oil contaminants using industrial grade detergent or degreasing compound as chemical cleaning and mechanical cleaning.

Application Procedure

Function	Product and Tools	Coating amount	Curing Time
Patching	: Polyfloor mortar PFM-222-3K SF. Mix well and apply with metal trowel. Mixing ratio component A : B : C = 3 : 2 : 35 by weight	22 kg-set /m ² /cm	± 8 hrs (30°C)
Primer Coat	: Silane hybrid SH-93-2K SF Clear. Mix well using mixer ± 2 minutes and apply with rubber squeegee and then epoxy roll. Mixing ratio component A : B = 2 : 1 by weight	0.15 kg-set/m ²	± 12 hrs (30°C)
Top Coat	: Silane hybrid SH-93-2K SF Clear. Mix well using mixer ± 2 minutes and apply with rubber squeegee and then epoxy roll. Mixing ratio component A : B = 2 : 1 by weight	0.40 kg-set/m ² /300mic	

Top coat can be used in 24 hours for foot traffic and 7 days for vehicular traffic

RECOMMENDED COATING SYSTEM

Preceding coats	: Silane Hybrid SH-93-2K SF Clear
Subsequent coats	: Silane Hybrid SH-93-2K SF series : Polyfloor Epoxy series : Propan UV Floor series



CLEANING

SILANE HYBRID SH-93-2K SF should be removed from tools and equipments with Propan Epoxy Thinner. Hardened material can be removed mechanically only.

SAFETY PRECAUTIONS

SILANE HYBRID SH-93-2K SF is incombustible, not contain heavy metals in its materials such as lead. Avoid Contact with skin and eyes. Do not inhale. Wear suitable protective equipment such as goggles, dust mask and gloves. Do not smoke near this product and use only explosion proof equipment.

First Aid

- Skin contact : Rinse under plenty of water immediately. Seek medical advice if irritation persists.
- Eye contact : Wash off under plenty of water immediately. Seek medical advice if irritation persists
- Inhalation : Take the person out to get more fresh air, loosen collar and avoid exertion. Keep him rested and help using breathing apparatus.



Technical Data Sheet
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SILANE HYBRID SH-93-2K SF COLOR



Silane Top Coat Solvent Free

PRODUCT DESCRIPTION

SILANE HYBRID SH-93-2K SF Color is a two components solventfree modified silane hybrid floor coating with excellent flow and incombustible material. Can be applied as thin coating \pm 300 micron dry film thickness

FIELDS OF APPLICATION

- Workshop and showroom area
- Industrial area
- Clean room
- Shopping mall
- Car Park
- Top table
- Office building

ADVANTAGES

- Incombustible compare with common epoxy
- Solvent free, low odor
- Smooth, seamless and gloss finish
- Excellent flow and easy to apply
- Dust-proof and easy to clean
- Good abrasion resistant and excellent adhesion
- Chemical Resistant
- Fungus and biological resistant

TECHNICAL DATA

Type	: Two component solvent free silane hybrid floor topping
Color	: As shown in the color card
Finish	: Glossy
Solid by volume (mixture)	: \pm 99%
Specific gravity (mixture)	: \pm 1.70 gr/cc
Material consumption	: 0.16 kg-set/m ² for \pm 100 microns DFT
Drying time (30°C)	:
- Surface dry	: 4 hours
- Hard dry	: 20 hours
- Full cure	: 7 days
- Open traffic	: 24 hours for light traffic and 7 days for vehicular traffic
Packaging	: 5 and 20 kg-set
Storage stability	: One year in cool and dry storage and in original not opened box.
Mixing ratio by weight	: Comp A : B = 4 : 1 w/w
Pot life(30°C)	: 30 minutes
Application method	: Epoxy roll, spiked roll
Re-coating interval (30°C)	: 12 - 16 hours until 7 days
Application temperature	: 25 - 35 °C
Humidity maximum	: 80 % RH
Provide adequate ventilation during application and drying	



TEST PERFORMANCE DATA

Item	: Result	Standard Test
Compressive strength	: > 50 N/mm ²	BS-6319 Part 2
Bonding strength	: > 2 N/mm ² concrete failure	ASTM D-4541
Abrasion resistant	: 0.019 gr loss	ASTM D-4060
Flexural strength	: > 30 N/mm ²	ASTM C-580
Impact resistant	: 50 cm (2 kg)	ASTM D-2794
Hardness	: 119 osc in 7 days	ASTM D-4336 (Shore D)
Flash point	: 90°C	Setaflash
Scratch resistant	: 34 x	Crock meter
Gloss level	: 85 - 95 %	Gloss meter
Water resistant	: Excellent	
Solvent resistant	: Excellent*	
Chemical resistant	: Excellent*	
Pot life	: 30 minutes (30°C)	
Temperature resistant	: 0 - 80°C	
Flow ability	: Excellent	

* consult with Propan for solvent and chemical list

INSTRUCTION FOR USE**Surface Preparation**

Compressive strength of concrete floor not less than 25 N/mm² in more than 28 days. Moisture content should be less than 5% and the surface temperature must be at least 3°C above current dew temperature. Remove oil contaminants using industrial grade detergent or degreasing compound as chemical cleaning and mechanical cleaning.

Application Procedure

Function	Product and Tools	Coating amount	Curing Time
Patching	: Polyfloor mortar PFM-222-3K SF. Mix well and apply with metal trowel. Mixing ratio component A : B : C = 3 : 2 : 35 by weight	22 kg-set /m ² /cm	± 8 hrs (30°C)
Primer Coat	: Silane hybrid SH-93-2K SF Clear. Mix well using mixer ± 2 minutes and apply with rubber squeegee and then epoxy roll. Mixing ratio component A : B = 2 : 1 by weight	0.15 kg-set/m ²	± 12 hrs (30°C)
Top Coat	: Silane hybrid SH-93-2K SF Color. Mix well using mixer ± 2 minutes and apply with rubber squeegee and then epoxy roll. Mixing ratio component A : B = 4 : 1 by weight	0.48 kg-set/m ² /300mic	

Top coat can be used in 24 hours for foot traffic and 7 days for vehicular traffic

RECOMMENDED COATING SYSTEM

Preceding coats	: Silane Hybrid SH-93-2K SF Clear : Polyfloor primer PFP-241-2K SB : Polyfloor primer PFP-251-2K SF
Subsequent coats	: Silane Hybrid SH-93-2K SF series : PU Floor PUAS_620-2K WB series : Polyfloor Epoxy series : Propan UV Floor series



CLEANING

SILANE HYBRID SH-93-2K SF COLOR should be removed from tools and equipments with Propan Epoxy Thinner. Hardened material can be removed mechanically only.

SAFETY PRECAUTIONS

SILANE HYBRID SH-93-2K SF COLOR is incombustible, not contain heavy metals in its materials such as lead. Avoid Contact with skin and eyes. Do not inhale. Wear suitable protective equipment such as goggles, dust mask and gloves. Do not smoke near this product and use only explosion proof equipment.

First Aid

- Skin contact : Rinse under plenty of water immediately. Seek medical advice if irritation persists.
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