

VIPER

VIPER 2K HS SR RAPID CLEARCOAT

Technical Data Sheet

Product Name: SVC5 VIPER 2K HS SR RAPID CLEARCOAT

Revision date: May 2025

General Information

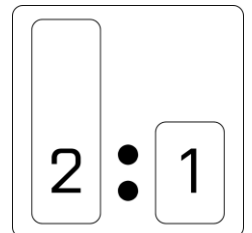
SVC5 VIPER Clearcoat is a 2K High Solids Anti-Scratch rapid clearcoat developed for use over all basecoat paint systems. It features proven urethane technology and delivers excellent appearance and productivity for both panel and full resprays. Designed to air-dry quickly at 20°C.

Substrate Compatibility

SUNOX® VIPER 2K HS Rapid Clearcoat can be applied over solvent-based and waterborne basecoats.

Health & Safety

For professional use only. Always consult the Safety Data Sheet (SDS) before use. Observe all label instructions and workplace PPE requirements.



Mixing Ratio & Components

2:1 + up to 5% thinner

- 2 parts SUNOX® VIPER HS Clearcoat
- 1 part SUNOX® VIPER Activator

Volume
100ml / 50ml

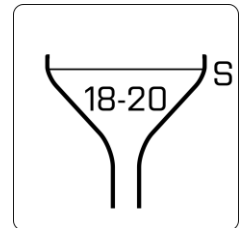
Weight:
100g / 55g

- Optional: Up to 5% SUNOX® UNI Thinner

Components

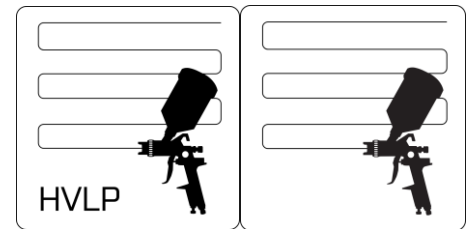
SUNVC5 [VIPER 2K HS SR RAPID CLEARCOAT]
SUNVA5 [VIPER 2K HS SR RAPID 5 MIN ACTIVATOR]
SUNVA10 [VIPER 2K HS SR RAPID 10 MIN ACTIVATOR]
SUNVA15 [VIPER 2K HS SR RAPID 15 MIN ACTIVATOR]
SUNVA20 [VIPER 2K HS SR RAPID 20 MIN ACTIVATOR]
SUNVA35 [VIPER 2K HS SR RAPID 35 MIN ACTIVATOR]
SUNST5 [2K UNI THINNER]

Use SUNOX® Fade Out Thinner for blending or fade-out areas



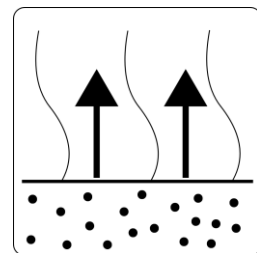
Spray Viscosity & Pot Life

- Viscosity:
- 18–20 sec (BS 4 cup at 20°C)
- 14 sec (DIN 4 cup at 20°C)



Recommended Spray Guns

LVLP Gravity-feed: 1.3–1.4 mm @ 2.0–2.5 bar
HVLP Gravity-feed: 1.3–1.5 mm @ 0.7 bar at nozzle
DeVilbiss PROLite (Air Cap T110): 1.3 mm @ 2.0–2.5 bar



Application Guidelines, Flash Times and Pot Life

Pot Life:

- 5 MIN 499: 20 mins @ 20°C
- 10 MIN 498: 45 mins @ 20°C
- 15 MIN 499: 90 mins @ 20°C
- 20 MIN 499: 120 mins @ 20°C
- 35 MIN 498: 150 mins @ 20°C

Number of Coats: 2-3

- 1st coat: ½ coat
- 2nd coat: Full wet coat
- 3rd coat: Optional

Flash-off time

15 min / 20 min / 35 min

5–8 minutes at 20°C

10 min

2-3 minutes at 20°C

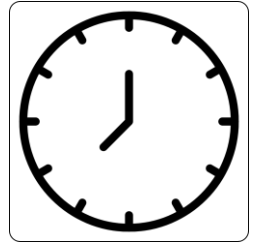
5 min

1-2 minutes at 20°C

Film Thickness

40–50 microns

Do not overapply — allow correct flash-off between coats.



Curing Schedule

Activator [35M]

- Bake: 35 mins @ 80°C (metal temp 60°C)
- Air Dry: Touch dry in 2 hours, hard dry in 18-24 hours
- Ready for polishing once cooled

Activator [20M]

- Bake: 20 mins @ 80°C (metal temp 60°C)
- Air Dry: Touch dry in 1.5hours, hard dry in 12-18 hours
- Ready for polishing once cooled

Activator [15M]

- Bake: 15 mins @ 80°C (metal temp 60°C)
- Air Dry: Touch dry in 1 hour, hard dry in 6-12 hours
- Ready for polishing once cooled

Activator [10M]

- Bake: 10 mins @ 80°C (metal temp 60°C)
- Air Dry: Touch dry in 30 minutes, hard dry in 1-1.5 hours
- Ready for polishing once cooled

Activator 499 [5M]

- Bake: 5 mins @ 80°C (metal temp 60°C)
- Air Dry: Touch dry in 20 minutes, hard dry in 30-40 minutes
- Ready for polishing once cooled



Infrared Curing Schedule [after flash off and at proper distance]

Activator [35M]

- 35 mins @ metal temp 60°C
- Ready for polishing once cooled

Activator [20M]

- 20 mins @ metal temp 60°C
- Ready for polishing once cooled

Activator [15M]

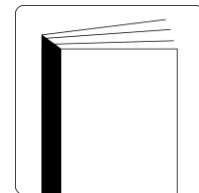
- 15 mins @ metal temp 60°C
- Ready for polishing once cooled

Activator [10M]

- 10 mins @ metal temp 60°C
- Ready for polishing once cooled

Activator [5M]

- 5 mins @ metal temp 60°C
- Ready for polishing once cooled



Physical Data

- Type: 2K HS Scratch-Resistant Clearcoat

EU Regulations

- VOC Classification: Compliant with Directive 2004/42/CE

- VOC (ready-for-use): 600 g/l (EU limit: 840 g/l for IIB(e))

- Solids Content (RFU): 45.5% by weight

- Appearance: Water white

- Shelf Life: 36 months (unopened container)

- Pack Sizes: 5L & 2.5L