Technical Data Sheet.



Permasolid® VHS Hardeners.

3220 fast 3225 3230 slow 3240 extra slow

Permasolid®

VHS Performance Hardeners

(for Permasolid® HS Performance Surfacer 5320)

3425 3440 slow

Thanks to the variety of Permasolid® VHS and Permasolid® VHS Performance Hardeners all painting conditions can be optimally catered for and highly reliable application is guaranteed.

Their high solids content allows for economical and eco-friendly application.

For professional use only! VR Technical Data Sheet No. EN / 3220_3440 / 03



Application.		
Possible base materials:	Permasolid® HS Express Surfacer 5250 Permasolid® HS Premium Surfacer 5310 Permasolid® HS Performance Surfacer 5320 Permasolid® HS Wet-on-Wet Surfacer 5330 Permasolid® HS SpectroFlex Surfacer 5400 Permasolid® HS Vario Surfacer 8590 Permasolid® HS Automotive Top Coat 275 Permasolid® HS Clear Coat 8030 Permasolid® HS Clear Coat 8034 Permasolid® HS Clear Coat 8035 Permasolid® HS Clear Coat 8055	
	Permasolid® HS Diamond Clear Coat 8450 Permasolid® HS Clear Coat 8650	
Field of application:	 Permasolid® VHS Hardener 3220 fast Suitable for partial refinishes (speed repairs) and low volumes of outgoing air in the spray booth. Permasolid® VHS Hardener 3225 	
	Suitable for full and partial refinishes at normal temperatures.	
	 Permasolid® VHS Hardener 3230 slow Suitable for full and partial refinishes, even at high temperatures. 	
	 Permasolid® VHS Hardener 3240 extra slow Suitable for full and partial refinishes, even at very high temperatures. 	
	 Permasolid® VHS Performance Hardener 3425 * Suitable for full and partial refinishes at normal temperatures. 	
	 Permasolid® VHS Performance Hardener 3440 slow * Suitable for full and partial refinishes, even at very high temperatures. 	
Mixing ratio:	See Technical Data Sheet of the respective base material.	

^{*} Permasolid® VHS Performance Hardeners may only be used for Permasolid® HS Performance Surfacer 5320.

Selection of hardeners	VHS Hardener 3220 fast	VHS Hardener 3225
Full or partial refinish (large objects)		+
Partial refinish (speed repairs)	++	+
High temperature above +25°C		+
Very high temperature +30°C to +35°C		-
Normal temperature +20°C to +25°C		++
Low temperature +15°C to +20°C	++	-
Low baking	+	+ +
Air drying	+ +	++

Selection of hardeners	VHS Hardener 3230 slow	VHS Hardener 3240 extra slow
Full or partial refinish (large objects)	+	+ +
Partial refinish (speed repairs)	+	+
High temperature above +25°C	+	++
Very high temperature +30°C to +35°C	-	++
Normal temperature +20°C to +25°C	++	++
Low temperature +15°C to +20°C	-	-
Low baking	+ +	++
Air drying	+ +	+

+ + ideal + suitable

- not particularly suitable - - unsuitable

Selection of hardeners	VHS Performance Hardener 3425	VHS Performance Hardener 3440 slow
Full or partial refinish (large objects)	+	++
Partial refinish (speed repairs)	+	+
High temperature above +25°C	+	++
Very high temperature +30°C to +35°C	-	++
Normal temperature +20°C to +25°C	++	++
Low temperature +15°C to +20°C	-	-
Low baking	++	++
Air drying	++	+

+ + ideal

+ suitable

- not particularly suitable - - unsuitable

Note on safety:



This product is classified according to regulation (EC) 1272/2008 (CLP).

Please consult the Safety Data Sheet.

It is strongly recommended to use appropriate personal protection equipment during application.

Data.

Flash point:

+24°C

Storage.

Storage conditions:



Do not store in damp conditions.



After use, replace container lid immediately, ensuring an airtight seal.

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Axalta Coating Systems Germany GmbH Horbeller Straße 15 D-50858 Köln

Phone +49 (0) 2234 / 6019 - 06 Fax +49 (0) 2234 / 6019 - 4100 www.spieshecker.com

