


Technical Data Sheet

Product Name	
Full Product Name	Universal (MS) Hardener
Type of Product	Isocyanate hardener
Description	Universal (MS) Hardener are a range of isocyanate hardeners, specifically designed for use with polyurethane 2K paints. There are four (4) hardeners in the range to give the best performance of the products in varying conditions. By following the chart in the "Selection Guide", choosing the correct hardener is easy.

Products						
Product Name	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
Universal (MS) Super Fast Hardener	31.5	38.9	0.938	7.83	572.7	4.78
Universal (MS) Fast Hardener	33.6	40.2	0.968	8.08	578.3	4.83
Universal (MS) Normal Hardener	33.9	39.9	0.986	8.23	593.1	4.95
Universal (MS) Slow Hardener	35.4	40.9	1.004	8.38	593.8	4.96

Properties
<ul style="list-style-type: none"> Refer to the Technical Data Sheet of the base product.

Substrates
<ul style="list-style-type: none"> Refer to the Technical Data Sheet for the base product

Substrate Preparation	
 All Substrates	All surfaces must be thoroughly sanded and cleaned with Concept Wax & Grease Remover prior to application.

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Product Preparation

	Mixing Ratio 2:1 (by volume)	Concept 2K Product(s)	Concept Universal (MS) Hardener
		2 parts	1 part
	Reducer	Refer to the Technical Data Sheet for the base product	
	Pot life @ 25°C (77°F)	Refer to the Technical Data Sheet for the base product	
	Spray viscosity @ 25°C (77°F)	Refer to the Technical Data Sheet for the base product	
	Product Application	Refer to the Technical Data Sheet for the base product	

This data relates only to the material designated herein and does not apply to use in combination with any other material or any process. The data is not to be considered as a warranty or quality specification and we assume no liability in connection with its use.

Selection Guide

Low Temperature Baking				25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
Baking Temperature				77°F	86°F	95°F	104°F	113°F	122°F	131°F	140°F
Universal (MS) Hardener	Super Fast	Single Panel	[Progressive bar chart showing drying times from 25°C to 60°C]								
	Fast		[Progressive bar chart showing drying times from 25°C to 60°C]								
	Fast	Large areas	[Progressive bar chart showing drying times from 25°C to 60°C]								
	Normal		[Progressive bar chart showing drying times from 25°C to 60°C]								
	Slow		[Progressive bar chart showing drying times from 25°C to 60°C]								
			40 min							35 min	
Air Drying				10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C
Ambient Temperature				50°F	59°F	68°F	77°F	86°F	95°F	104°F	113°F
Universal (MS) Hardener	Super Fast	Single Panel	[Progressive bar chart showing drying times from 10°C to 45°C]								
	Fast		[Progressive bar chart showing drying times from 10°C to 45°C]								
	Fast	Large areas	[Progressive bar chart showing drying times from 10°C to 45°C]								
	Normal		[Progressive bar chart showing drying times from 10°C to 45°C]								
	Slow		[Progressive bar chart showing drying times from 10°C to 45°C]								

Note: Ensure that substrate temperature is at least 3°C (5°F) above Dew Point Temperature.

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Remarks



Stir all products thoroughly each time before use.
Stir the mixture well after the weigh-out of the components.



Surface temperature must always be a minimum of 3°C (5°F) above dew point.

Important Note:

This Hardener Selection Guide is issued by Concept Paints as a guidance only and is current and correct to the best of our knowledge at the time of issuance intended. It is recommended for use by professional trade and industrial applicators with Concept Paints products only. When using with other company's product, adjustments may be required.

The user must ensure suitability of the products and their performance for the application at hand. Concept Paints assumes no responsibility nor provides any warranty.

Equipment Cleaning

Use recommended Concept Paints cleaner

Dry Film Properties

After 7 days drying,
when compared to similar technology products.

- Refer to the Technical Data Sheet for the base product.

Product Data

Colour

Water white

Theoretical Coverage

Refer to the Technical Data Sheet for the base product

Shelf Life

24 months in an unopened container
at room temperature away from sunlight.

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Product Packaging

Product Code 1	Product Code 2	Product Name	Package Size
A04C/UNIMSSF	2139400	Universal (MS) Super Fast Hardener	500mL, 1L
A04C/UNIMSF	2139300	Universal (MS) Fast Hardener	500mL, 1L
A04C/UNIMSN	2139200	Universal (MS) Normal Hardener	500mL, 1L
A04C/UNIMSS	2139100	Universal (MS) Slow Hardener	500mL, 1L

Safety

For automotive and industrial use only by professional painters. Not recommended for sale to, or use by the general public. Before using, read and follow all label and Safety Data Sheet (SDS) precautions. If mixed with other components, the mixture will have hazards of all individual components.

Read and understand the Guidelines for the Safe Handling and Use of Isocyanate Containing Paints, including the use of approved respiratory protection and Personal Protective Equipment. Use only in a well-ventilated approved spray booth, according to local regulations.

The information provided in this documentation has been carefully selected and arranged by us. It is based upon our best knowledge on the subject at the date of issuance. The Information is given for information purposes only. We are not liable for its correctness, accuracy and completeness. It is up to the user to check if the information is current and the product is suitable for its intended purpose. The intellectual property in this Information, including patents, trademarks and copyrights, is protected. All rights reserved.

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This Technical Data Sheet supersedes all previous issues.

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