

# Desmophen<sup>®</sup> VP LS 2089

## Characterization

Desmophen VP LS 2089 is a hydroxyl-bearing polyester.

It is used in combination with Desmodur<sup>®</sup> N 75, N 3390 and N 3600 to formulate two component polyurethane coatings with good light stability, chalking resistance and gloss retention.

## Form supplied

Form supplied is approximately 75% in butyl acetate.

## Characteristic data

Property	Value	Unit of measurement	Method
OH content	5.7 - 6.3	%	
Acid value	13 - 17	KOH/g	
Solids content	73 - 77	%	
Viscosity at 23°C	8,000 - 12,000	mPa•s	
Hazen color value	≤ 50		
Water content	≤ 0.2	%	

## Other data\*

Property	Value	Unit of measurement	Method
Equivalent weight	approx. 283		
Flash point	approx. 30	°C	
Density at 20°C	1.110	g/cm <sup>3</sup>	

\*These values provide general information and are not part of the product specification.



# Desmophen<sup>®</sup> VP LS 2089

## Solubility / thinnability

Desmophen VP LS 2089 has good compatibility with the following solvents: ethyl acetate, butyl acetate, 1-methoxy propyl-acetate-2, acetone, methyl ethyl ketone, methyl isobutyl ketone, cyclohexanone and solvent blends of the above.

Note that only polyurethane grade solvents should be used, the water content should be less than 0.05%.

The product is insoluble in aliphatic hydrocarbons.

With toluene, xylene and solvent naphtha 100 are not perfectly compatible.

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## Compatibility

Mixtures can be made with the following Desmodur types:

Desmodur N 75, N 100, N 3390A BA/SN, N 3600 and N 3800. Individual cases must be tested for their suitability. The compatibility of the combinations must be tested in the final formulation, however.

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## Properties / Applications

Desmophen VP LS 2089 can be used in aircraft and railway rolling stock coatings. When it is used in combination with Desmodur N 75, N 3390A BA/SN, and N 3600, it provides very good weathering properties and gloss retention. Due to its high crosslinking ratio, it provides good solvent and chemical resistance.

As with any product, use of Desmophen VP LS 2089 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.



# Desmophen<sup>®</sup> VP LS 2089

<b>Storage</b>	Desmophen VP LS 2089 should be stored in tightly sealed original containers and protected from moisture, heat, and foreign materials. The product tends to separate after extended storage. After homogenization, the product can be used with no loss of quality. Recommended storage temperature is a maximum of 30°C.
<b>Storage time</b>	Desmophen VP LS 2089 has a shelf life of six months from date of receipt at customer, provided the material is stored in sealed original containers at the recommended storage temperature.
<b>Other Information</b>	Desmophen <sup>®</sup> and Desmodur <sup>®</sup> are registered trademarks of the Covestro Group.
<b>Health and Safety Information</b>	Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Covestro LLC representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

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 **Desmophen<sup>®</sup>**

**Product Datasheet**