

## Advanced Materials

# Modifier DW 1765<sup>#</sup>

### Specialty Components

#### DATA SHEET

<b>Paste based on liquid epoxy resin</b>																												
<b>Applications</b>	As additive to solvent-free coatings and self levelling floorings																											
<b>Properties</b>	<p>Mostly eliminates or greatly reduces exudation / blushing / tackyness and sensitivity to water (water spotting). The resulting surfaces show excellent gloss and improved scratch resistance due to a superficial lubricating effect.</p> <p>Will give an extremely slight thixotropic effect and transparent films will show a trace of hazyness.</p> <p>Not advisable in solvent-based systems, as solvents will dissolve part of the product and so can lead to surface defects.</p>																											
<b>Processing</b>	<p>Must be incorporated into the resin component, together with pigments / fillers / thixotropes preferably using high-shear dispersing machines. Temperatures above + 50 °C must be avoided. Levels of addition are 2 to 5 % on epoxy resin.</p> <p>After storage, DW 1765 will float to the top of the resin component into which it has been incorporated and must be re-dispersed by slight stirring prior to application.</p>																											
<b>Key data</b>	<p><b>Specified key data</b></p> <table border="1"> <thead> <tr> <th>Aspect (visual)</th> <th colspan="2">paste</th> </tr> </thead> <tbody> <tr> <td><b>Epoxy index (ISO 3001)</b></td> <td><b>1.20 - 1.60</b></td> <td><b>[eq/Kg]</b></td> </tr> </tbody> </table> <p><small>Specified key data are individually checked throughout, guaranteed and included in the Certificate of Analysis (CoAs)</small></p> <p><b>Typical key data</b></p> <table border="1"> <tbody> <tr> <td>Density at 20 °C (ISO 1675)</td> <td>~ 0.90</td> <td>[g/cm<sup>3</sup>]</td> </tr> <tr> <td>Flash point (Pensky Martens, ISO 2719)</td> <td>100</td> <td>[°C]</td> </tr> <tr> <td>As-supplied form</td> <td colspan="2">Paste</td> </tr> <tr> <td>Odour</td> <td colspan="2">no</td> </tr> <tr> <td>Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container)</td> <td colspan="2">two years</td> </tr> <tr> <td>Hazardous decomposition products (when disposed of in fire)</td> <td colspan="2">carbon monoxide, carbon dioxide and other toxic gases and vapours</td> </tr> <tr> <td>Disposal</td> <td colspan="2">regular procedures approved by local authorities</td> </tr> </tbody> </table> <p><small>Typical key data are spot checked; the values are typical for the product and are indicated for information only. The values are not guaranteed or included in the CoAs.</small></p>	Aspect (visual)	paste		<b>Epoxy index (ISO 3001)</b>	<b>1.20 - 1.60</b>	<b>[eq/Kg]</b>	Density at 20 °C (ISO 1675)	~ 0.90	[g/cm <sup>3</sup> ]	Flash point (Pensky Martens, ISO 2719)	100	[°C]	As-supplied form	Paste		Odour	no		Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container)	two years		Hazardous decomposition products (when disposed of in fire)	carbon monoxide, carbon dioxide and other toxic gases and vapours		Disposal	regular procedures approved by local authorities	
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<sup>#</sup> In addition to the brand name product denomination may show different appendices, which allows us to differentiate between our production sites: e.g. BD = Germany, US = United States, IN = India, CI = China, etc. These appendices are in use on packaging, transport and invoicing documents. Generally the same specifications apply for all versions. Please address any additional need for clarification to the appropriate Huntsman contact.

## Influence of DW 1765 additions in systems cured with standard hardeners

### Evaluation

0 = Good

5 = Very negative effect

### Waterspotting

	ARADUR® 43-1			ARADUR® 16		
Hardening temperature	23°	10°	5°	23°	10°	5°
Addition of DW 1765 in epoxy resin						
without	1	5	5	2	4	4
2.5%	0	1-2	2	0	1-2	3
3.0%	0	1-2	2	0	1-2	3
3.5%	0	0	0	0	1	3
5.0%				1	1	

### Gloss

	ARADUR® 43-1			ARADUR® 16		
Hardening temperature (°C)	23°	10°	5°	23°	10°	5°
Addition of DW 1765 in epoxy resin:						
without	0	2	2	0	2-3	2-3
2.5%	0	0-1	1	0	0-1	1
3.0%	0	0	1	0	0	1
3.5%	0	0	0	0	0	1
5.0%	0	0	0	0	0	0

### Intercoat adhesion

	ARADUR® 43-1			ARADUR® 16		
Hardening temperature (°C)	23°	10°	5°	23°	10°	5°
Addition of DW 1765 in epoxy resin						
without	0	4	4	2	5	5
2.5%	0	2	2	0	1	2
3.0%	0	1	1	0	1	1
3.5%	0	1	0	0	0	0
5.0%	0	0	0			

<b>Storage</b>	Modifier DW 1765 should be stored in a dry place, preferably in the sealed original container, at temperatures between 2 and 40 °C. The product should not be stored exposed to direct sunlight.
<b>Handling precautions</b>	Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic precautions for handling plastics products".
<b>Note</b>	Araldite® is a registered trademark of Huntsman LLC or an affiliate thereof.

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