



## Induline DW-691

Opaque water-based industrial intermediate coating and finishing coat for spraying



Colour	Availability			
	Quantity per pallet	96	22	4
	<b>Size / Quantity</b>	<b>5 l</b>	<b>20 l</b>	<b>120 l</b>
	Type of container	Tin bucket	Tin bucket	Plastic drum
	Container code	05	20	68
	<b>Art. no.</b>			
<b>Induline DW-691/20 matt</b>				
white (RAL 9016) (base A - pre-filling: 100%)	3074		■	
special colours	3075	■	■	■
Base C (pre-filling: 95%)	015168		■	
<b>Induline DW691-35 silk matt</b>				
white (RAL 9016) (base A - pre-filling: 100%)	3070	■	■	■
pure white (RAL 9010)	3064		■	
special colours	3069	■	■	■
Base C (pre-filling: 95%)	015169	■	■	

### Application rate



two spray applications:  
each 150-175 ml/m<sup>2</sup> (plus spray loss)  
(corresponds to wet film thickness of 150-175 µm, dry film thickness of 55-65 µm)

one spray application:  
each 300-325 ml/m<sup>2</sup> (plus spray loss)  
(corresponds to wet film thickness of 300-325 µm, dry film thickness of 110-120 µm)

Some figures may differ depending on the colour.

### Range of use



- For use on interior and exterior wood
- Soft and hard woods
- Dimensionally stable wood building elements: e.g. windows and doors
- Intermediate and finishing coats
- Preferably as a single coat
- Not to be applied to Induline GW-201 WF NL (2506)
- For use by professionals

### Property profile



- High degree of process reliability for industrial use
- Good hiding power
- Good flow properties
- Supports sealing when used with suitable primer and intermediate coatings
- Good block resistance
- Good resistance to yellowing and chalking
- Dirt-resistant
- Special combination of binding agents creates an extremely hard-wearing surface
- Good hail resistance

### Characteristic data of the product



Viscosity (20 °C; 29 s-1)	Approx. 3000 mPas (RAL9016), approx. 3300 mPas (base C)
Binder	special acrylate polymers
Density (20 °C)	approx. 1.14 g/cm <sup>3</sup> approx. 1.03 g/cm <sup>3</sup> (base C)
Odour	characteristic
Degree of gloss	matt / silk matt

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

#### Certificates

- French VOC Emission Test
- DIN EN 71-3 "Migration of certain elements"

#### Possible system products

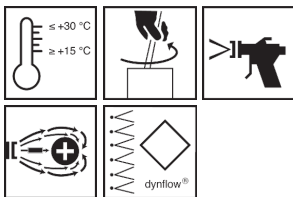
- Induline SW-900\* (3776)
- Induline GW-201 (2491)
- Induline GW-209 (2498)
- Induline GW-306\* (3488)
- Induline ZW-400 (3900)
- Induline GW-360 (3201)
- Induline ZW-502i (1633)
- Induline ZW-504i (3453)
- Induline ZW-507i (1636)
- Induline ZW-425 (7918)
- Induline SW-935 (3786)
- Induline Mix & Go (1827)

\*Use biocidal products carefully.  
Always read the label and product information before use.

#### Preparation

- Substrate requirements  
The substrate must be clean, dry, free of dust, grease and loose substances, and prepared in the correct manner.  
Dimensionally stable wood building elements: wood moisture content 11-15%
- Substrate preparation  
If necessary, impregnate non-resistant woods with a wood preservative\* (\*Use biocides safely. Always read the label and product information before use).  
Pre-treat using a suitable primer & intermediate coat and carry out intermediate sanding if necessary.  
If necessary, protect parapet joints with Induline V-Joint Protection or Induline AF-920.

#### Directions



- Conditions for use  
Temperature of the material, air and substrate: from min. +15 °C to max. +30 °C.

The values given are based on undiluted material. The best spraying pattern is achieved if the material has a temperature of 15-20 °C.  
Ensure good ventilation.  
Check colour and compatibility with the substrate by applying a trial coat.  
Airless spraying: nozzle size: 0.28-0.33 mm; material pressure: 70-90 bar.  
Air-mix spraying: nozzle size: 0.28-0.33 mm; material pressure: 70-90 bar, atomiser air pressure 1-2 bar.  
Seal opened containers well and use contents as soon as possible.

#### Tips on use



Check colour, adhesion and compatibility with the substrate by setting up a trial area.  
Before coating technically modified woods and wood-based materials, apply the coating to a trial surface and conduct a suitability test on the desired area of use.  
Prior to full application, please apply a test coat to a sample area under practical conditions using the desired system, then test or examine the surface properties.  
Do not use in direct sunlight or at temperatures below +15 °C or above +30 °C.  
Ensure good ventilation.  
Recycling is possible via the standard channels. Liaise with Remmers Technical Service if coatings have been mixed.  
To prevent coloured substances contained in the wood from showing through, use a suitable primer and intermediate coating with a sealing effect on white or light-coloured surfaces.  
With water based coating systems, there is always a residual risk that substances contained in the wood will cause discoloration.  
To avoid thicker coats, e.g. in the case of full-tone colours, pretreat with translucent rather than white primer. Then add the coloured topcoat as the intermediate coat.  
The specifications of VFF Code of Practice HO.03 must be observed with regard to the permitted dry layer thicknesses.  
The system finder on our website [www.remmers.com](http://www.remmers.com) contains coating recommendations for specific wood types to be used when treating windows and exterior doors.

- Drying  
Dust dry: after approx. 1 hour



Ready for sanding and next coat: after approx. 4 hours  
(practical values at 23 °C and 50% RH and a wet film thickness of 150 - 175 µm)

When forced drying takes place, ready for sanding and next coat: 20 minutes flash-off time (at approx. 20 °C and 65-75% RH) / 75 minutes drying time (approx. 38 °C, 1 m/s air circulation) / 20 minutes cooling time

- Thinning  
If necessary with water (max. 5%)

**Notes**

DIN EN 71-3 "Migration of certain elements":  
This product complies with the limits for the migration of heavy metals to children's toys according to DIN EN 71-3 and thus fulfils one of several further requirements for the safety of children's toys according to the EU "Toy Directive" (2009/48/EC).

**Sealing:**  
Sealing compounds must be compatible with the coating and may only be applied once the coating has dried thoroughly.  
Only use sealing profiles that are free of plasticisers.  
Where the coating substances used are rich in colour, colour rub-off may occur, e.g. during cleaning. These effects are temporary and sporadic and do not impact the quality of the product in any way. Please see the technical information contained in TI 5.12 "Paint chalking".

**Production of a brushing quality:**  
This product can be used with Induline Mix & Go to produce an easy-to-apply lacquer for reconditioning and repair work.

**Care and maintenance:**  
Wood is subjected to great climatic and environmental stresses when outdoors. The coat is susceptible to the processes of natural ageing, wear and decomposition. Decomposition takes place at different speeds, depending on the stress (weak, average, strong) placed on the wood building element. Weathering stages may vary according to the part or element affected. To give wood the longest and best possible protection it is advisable to examine surfaces every year. Any damage found should be addressed immediately after cleaning.  
For cleaning and care, we recommend the care set for windows (2745) and doors (2746).  
We recommend that reconditioning coats be applied using Aqua AG-26 All Primer (7147) and Aqua DL-65 Opaque Top PU (7200) or Aqua VL-66/sm Venti-Coat 3in1 (7090)  
Observe current standards and guidelines for coating wood building elements outdoors (Codes of Practice issued by the German Association of Window and Facade Manufacturers (VFF), Code of Practice No. 18 issued by the German Federal Committee for Paint and the Protection of Material Assets (BFS), guidelines issued by the German Lacquer and Printing Ink Association (VdL) and ift guidelines issued by the Institut für Fenstertechnik).

**Tools / Cleaning**

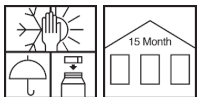
Airless-/ Airmix spraying equipment, electrostatic equipment, dynflow equipment



Clean tools with water or Aqua RK-898 Cleaning Concentrate immediately after use.  
Ensure that any residue from cleaning is disposed of correctly.

**Storage / Shelf life**

If stored unopened in its original container in a cool, dry place and protected against frost, the product will keep for at least 15 months.



**Safety data / Regulations**

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

**Personal protective equipment**

Respiratory protection with at least an A/P2 combination filter must be worn during spraying, together with safety goggles. Wear suitable protective gloves and clothing.

**Disposal**

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

**Biocidal Products Regulation**

Contains a biocidal product (in-can preservative) with the biocidal agents CMIT/MIT (3:1) for protecting the container content from deterioration by microbial organisms (germs, yeast, etc.). Please note the processing guidelines carefully!



VOC content as per the  
"Decopaint" Directive  
(2004/42/EC)

EU limit value for the product (cat A/d): max. 130 g/l (2010).  
This product contains < 130 g/l VOC.

VOC	
Kat.	A/d
2010:	130g/l
max.:	130g/l

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.