

# Joncryl<sup>®</sup> PRO 1537



<b>general</b>	a rheology controlled acrylic emulsion polymer for high gloss, fast drying industrial metal and plastic coatings and interior decorative paints.
<b>key features &amp; benefits</b>	<ul style="list-style-type: none"> <li>• adhesion to a various metals</li> <li>• good corrosion resistance and humidity resistance</li> <li>• early water resistance</li> <li>• high hardness</li> </ul>
<b>chemical nature</b>	acrylic emulsion

## Properties

<b>appearance</b>	translucent emulsion																
<b>typical characteristics</b> <i>(should not be interpreted as specifications)</i>	<table> <tr> <td>solids by weight</td> <td>46%</td> </tr> <tr> <td>viscosity at 25 °C (Brookfield)</td> <td>250 mPa.s</td> </tr> <tr> <td>density (as supplied) at 25°C</td> <td>1.05 kg/m<sup>3</sup></td> </tr> <tr> <td>pH</td> <td>8.4</td> </tr> <tr> <td>acid value (solids)</td> <td>49 mg KOH/g</td> </tr> <tr> <td>glass transition temperature Tg (DSC)</td> <td>46 °C</td> </tr> <tr> <td>minimum film forming temperature</td> <td>45 °C</td> </tr> <tr> <td>freeze/thaw stable</td> <td>yes</td> </tr> </table>	solids by weight	46%	viscosity at 25 °C (Brookfield)	250 mPa.s	density (as supplied) at 25°C	1.05 kg/m <sup>3</sup>	pH	8.4	acid value (solids)	49 mg KOH/g	glass transition temperature Tg (DSC)	46 °C	minimum film forming temperature	45 °C	freeze/thaw stable	yes
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## Application

Joncryl<sup>®</sup> PRO 1537 is an excellent vehicle for general and special purpose industrial coatings especially when corrosion protection is required.

## Performance

Joncryl® PRO 1537 is a rheology controlled (RC) acrylic emulsion that offers many distinct advantages to metal coatings. Joncryl® PRO 1537 exhibits good early water resistance and excellent adhesion to a wide range of metals and plastics due to the free carboxylic groups present. It has good resistance against humidity and corrosion.

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## Formulation guidelines

### Coalescing

To achieve good film formation, it is necessary to have sufficient coalescing solvent present after most of the water has evaporated. Joncryl® PRO 1537 has been shown to form a good film at room temperature when levels of approx. 10-13% on Joncryl® PRO 1537 (as supplied) of coalescing solvent are used. As drying conditions become more severe (below 15°C and/or above 70% relative humidity), slower evaporating and/or hydrophobic solvents (e.g Texanol® Solvenol® DPnB) will be required to achieve good film formation.

For anti-corrosion primers we recommend the use of a plasticizer e.g. Dioctyl adipate (DOA) in combination with coalescing solvents.

### Foam Control

As a defoamer Dehydan® 1293 is recommended.

### Thickening agent

Joncryl® PRO 1537 can be formulated to give a high viscosity without using additional thickener. However, if a further increase in viscosity is desired, we recommend for Newtonian rheology behavior (brush application) DSX® 1514. For spray application (pseudo plastic rheology) we recommend DSX® 3290 or DSX® 1550.

### Pigment dispersion

Joncryl® PRO 1537 is shear stable and can be used as a grind vehicle with the addition of low levels of pigment dispersant. Hydropalat® 3216 is recommended.

**Safety**

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

**Note**

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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BASF Nederland B.V.  
Resins & Additives  
P.O. Box 390  
8440 AJ Heerenveen, The Netherlands  
Phone +31 513 619 619  
Fax +31 513 619 600  
[resins@basf.com](mailto:resins@basf.com)  
[www.basf.com/resins](http://www.basf.com/resins)