

Indunal PL 265 AM

- ◆ Aqueous dispersion of a styrene-acrylic polymer

Fields of Application: Paper Finishing

- ◆ Surface sizing agent for paper and board
- ◆ Particularly suitable for printing and writing paper grades

Performance:

- ◆ Adjustable hydrophobation of the cellulose fibres
- ◆ Compatible with all common surface starches, as well as with Fluorescent Whitening Agents
- ◆ Very well suitable for a combined sizing approach together with all common internal sizing agents (rosin size, AKD, ASA)
- ◆ Low-foaming
- ◆ Insensitive against the presence of salts, and against shear forces
- ◆ Improves the paper surface strength and thus reduces dusting and linting
- ◆ Results in all excellent printability of the sized paper
- ◆ Particularly suitable for office paper that is printed by an inkjet printer or by a xerographic method (laser printer, copier)

Appearance	:	yellowish emulsion
Solid Contents* (DIN EN ISO 3251)	:	24.0 – 26.0 %
Viscosity at 20°C (DIN 53019-1) (Anton Paar RheolabQC; MS: CC27; D=378 s ⁻¹)	:	< 50 mPa·s
pH Value* (DIN ISO 976)	:	4.0 – 6.5
Ionicity	:	anionic net charge at pH 7
Freeze/Thaw Stability	:	unstable
2011-11-14		
* Specification value listed in our certificate of analysis		

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Spezialist für makromolekulare Chemie

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Technical Note on the Application:

Indunal PL 265 AM is particularly suitable for the surface sizing of printing and writing paper grades.

Typically, the product is applied to the paper surface by means of a size press, a film press or a similar aggregate along with a solution of surface starch.

Indunal PL 265 AM yields an efficient hydrophobation of GCC- and PCC- filled papers. The resulting sizing effect is stable over a broad pH range. The presence of aluminium ions in the base paper is not necessary to achieve good sizing.

Indunal PL 265 AM is a very fine-particulate dispersion and thus highly efficient. Generally the product is very low-foaming. The need for a defoamer in the size press formulation is depending on the particular case, it is generally influenced by many different parameters. In some cases, when using Indunal PL 265 AM as surface sizing agent, the defoamer use might be diminished or even stopped.

When moving from a pure internal sizing approach to a combined internal/surface sizing, the dosage of internal sizing agent can be typically reduced to a remarkable extent. The sizing effect of Indunal PL 265 AM is fully developed after the post drying section, a curing time is not necessary. Thus the desired level of sizing is typically better adjustable in case of a combined internal/surface sizing approach.

Application:

Indunal PL 265 AM is added at the typical addition points for surface sizing agents, e.g. to the surface sizing day tank or directly to the size press inlet flow. The product is preferably added in continuous mode.

Indunal PL 265 AM can be added in undiluted form. The necessary amounts to achieve a certain sizing degree are depending on many parameters, for example on the paper furnish composition, the type and amount of the internal sizing agent etc.

The required amount for woodfree paper sizing is typically in the range of 0.2-0.8%, related to the dry paper weight. Case by case, it might be necessary to determine the suitable dosage amount by pre-trials.

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Technical Details:

Suitable pumps for continuous metering of Indunal PL 265 AM are e.g. positive displacement pumps. We do not recommend using gear pumps, as deposits can be formed in the pump after some days of use.

Once the neat product is dried, it is not anymore redispersible, thus the during needs to be avoided as good as possible. If Indunal PL 265 AM is standing for a longer time in dosing pipes and pumps, e.g. in case of a longer machine shutdown, then we recommend to flush the pipes and pumps with fresh water.

Use in Food Packaging Papers:

Indunal PL 265 AM complies with the recommendation XXXVI of the Bundesinstitut für Risikobewertung (BfR, German Federal Institute for Risk Assessment) "Paper and Board for Food Contact Applications" in its current form. It is thus permitted to use Indunal PL 265 AM for the production of food packaging papers.

Indunal PL 265 AM complies furthermore with the Schweizer Bedarfsgegenstände-verordnung (Swiss Ordinance on Materials and Articles in Contact with Food regulates) SR 8107.023.21 and the FDA guide lines §175.105, §176.170 und §176.180 in the current version.

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