

Basonol[®] PU 1035 W

Product description Flexible OH- functional aliphatic polyurethane dispersion developed for primer applications

Key benefits

- Excellent adhesion on various substrates (plastic, e-coat, metal)
- For 1K stoving coatings crosslinked with melamine and/or blocked polyisocyanate
- For 2K PUR applications crosslinked with polyisocyanates
- Very flexible
- Formulation robustness
- Hydrolysis stable

Chemical nature

Hydroxy functional PES-PUD
 Zero add-on of NMP (N-methylpyrrolidone), NEP (Nethylpyrrolidone) and other organic solvents
 Zero add-on of APEO (Alkylphenoethoxylaten) and metal organic catalysts

Properties

Physical form Translucent emulsion

Technical data

(not supply specification)

Solids by weight	ISO 1625	39-45 %
Viscosity at 25 °C (Brookfield)	DIN EN ISO 2555	50 - 750 mPa·s
pH	DIN ISO 976	6-8
Density (as supplied)	DIN 53217	~ 1.06 g/cm ³
Glass transition temperature T _g (DSC)	DSC	< -30 °C
Minimum film-forming temperature (MFFT)	DIN ISO 2115	< 0 °C
Particle size	Dynamic light scattering	< 120 nm
Hydroxyl content (on solids)	calculated	~ 1.1
Hydroxyl number (on solids)	calculated	~ 35 mg KOH/g
Stabilization		anionic
Freeze/thaw-stable		no

Application

Basonol® PU 1035 W is used in 1K stoving and 2K primer applications for plastic and metal substrates.

Formulation guideline

Recommendation cross-linker

- **melamine resins:**
e.g. Luwipal® 072, 073 LF or Luwipal® 066 ULF
- **polyisocyanates for 2K:**
e.g. Basonat® HW 1180 PC

Dispersing agents

Dispex® Ultra FA 4483, Dispers® AA 4140

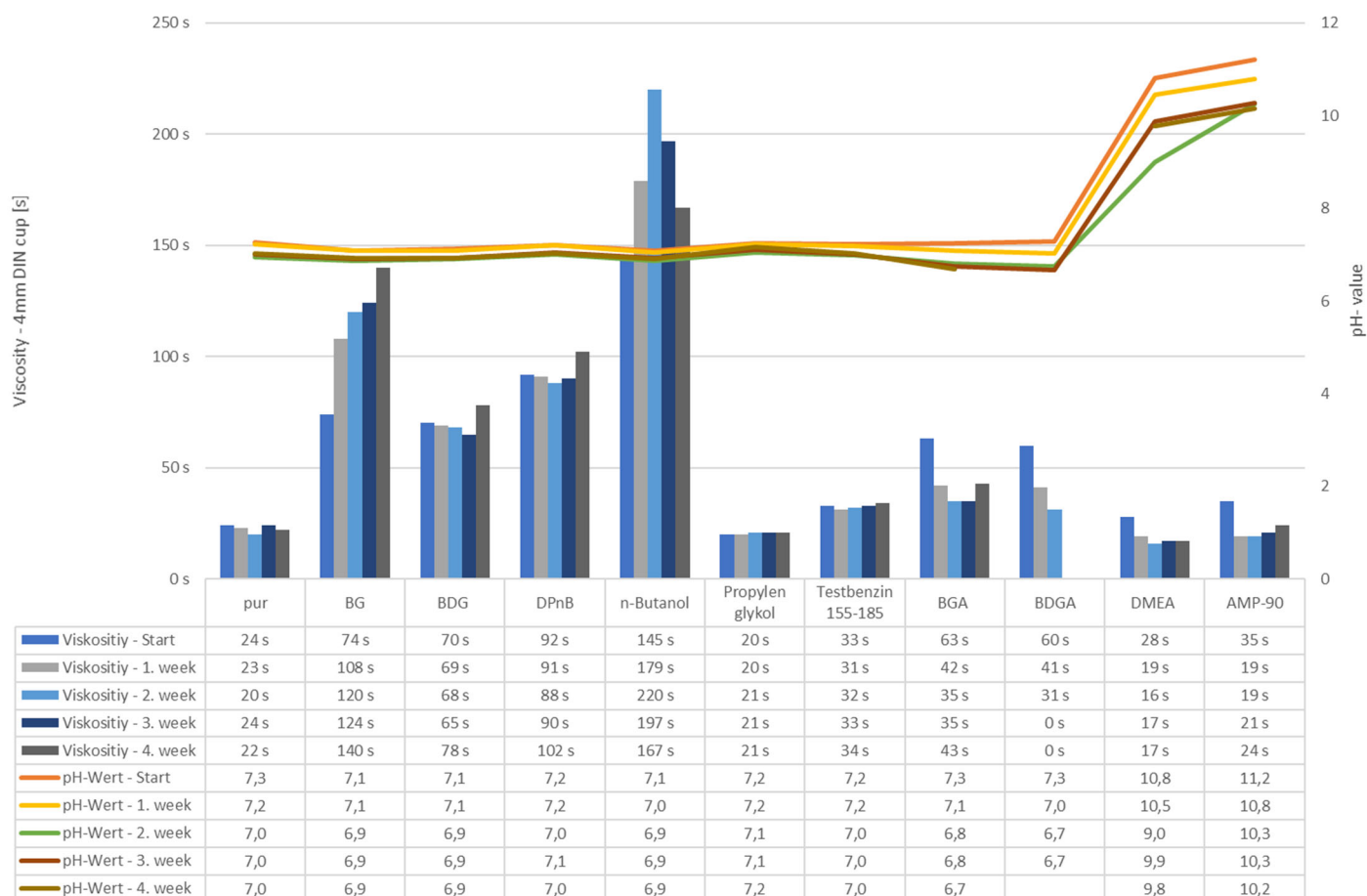
Defoamers

FoamStar® ST 2400, FoamStar® ST 2454

Rheology modifiers

Rheovis® AS 1130

Coalescent solvents (5 % on dispersion) storage stability @ 40 °C (see diagram)



Storage

Basonol® PU 1035 W shall be stored in its tightly sealed original packaging at temperatures between 5 °C and 40 °C.

This product must be protected from frost

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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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