



## A versatile toolbox:

Hard to flexible waterborne dispersions  
for high-value automotive interior plastic coatings.

Bayhydrol<sup>®</sup>



## Bayhydrol® OH-functional dispersions

	Type	Solids approx. (supply form)	Co-solvents (Share of supply form)	pH	Viscosity (mPa · s)
A 2845	PAC	40.0%	3.2 PnB	8.5	Approx. 2,500
A 2227/1	PES-PAC	42.0%	8 BG	8.0	700–2,500
A 2861	PAC	53.0%	1.3 PnB	8.5	Approx. 2,000
U 2750	PES-PUR	43.0%	No co-solvents	8.0	Approx. 1,000
U 2698	PES-PUR	52.0%	No co-solvents	7.2	500–2,500
U 2787	PES-PUR	41.0%	No co-solvents	8.3	100–2,000
U 2757	PES-PUR	52.0%	No co-solvents	7.7	500–1,500

## Bayhydrol® (OH-functional) without NMP

**SOFT**

U 2698  
U 2787  
U 2757

**SEMI-HAPTIC**

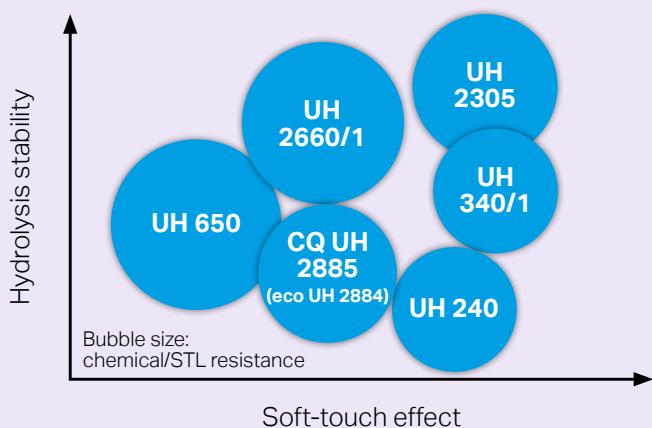
A 2861  
A 2227/1

**DECORATIVE**

U 2750  
A 2845

Increasing chemical resistance

## Non-functional PUDs (without NMP)



### Decorative coatings:

- Bayhydrol® A 2845, a crosslinkable polyacrylate dispersion offering excellent resistance to chemicals and sunscreens
- Suitable for single-coat systems: pigmented and in metallic color tones; in two-coat systems as a clearcoat
- High gloss and very low yellowing tendency when exposed to thermal load or weathering
- Gloss, flexibility and adhesion profiles can be precisely adjusted through combination with polyurethane dispersions from the Bayhydrol® U range, e.g., U 2750 or U 2757

### Semi-haptic coatings:

- Combine optimum resistance with haptic features, even in single-coat systems
- Resistance and good adhesion incorporated by the acrylate component Bayhydrol® A 2227/1 or Bayhydrol® A 2861; haptic effects and flexibility achieved by adding the crosslinking polyurethane dispersion Bayhydrol® U 2757; consistently good adhesion to a variety of plastic substrates
- Strict specifications of automotive manufacturers can be fulfilled by coatings formulated in this way

### Soft-touch coatings:

- Crosslinkable polyurethane dispersions Bayhydrol® U 2698 and U 2757 combined with the high-molecular polyurethane dispersions Bayhydrol® UH and special fillers to achieve special haptic effects
- Current product generation displays high sunscreen resistance and hydrolysis testing standards

### General information:

All of these dispersions are produced without the use of N-methyl- or N-ethylpyrrolidone (NMP/NEP). Nor are NMP and NEP required for coating formulation, and corresponding starting formulations are available. We recommend polyisocyanates from the Bayhydur® and Desmodur® ranges to crosslink the coatings.

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<sup>1</sup>Please see the "Guidance on Use of Covestro Products in a Medical Application" document. Edition: 2022 · Printed in Germany



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