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NeoPac™ HP-5081

## NeoPac™ HP-5081

For simplified multi-purpose  
primer formulations



## Stain-blocking acrylic urethane with multi-substrate adhesion

From repainting bathroom tiles to refinishing tropical wood furniture, consumer demand for versatile, high-performance primers continues to grow across the architectural and construction sector. In turn, formulators face increasing pressure to develop coatings that adhere to a variety of substrates, including wood, plastics, and tile.

To stay competitive, manufacturers must also address evolving end-user requirements, such as the need to block stubborn tannin stains from tropical woods, while streamlining the formulation process to reduce complexity and costs. To help formulators overcome these challenges and stand out in both the DIY and professional markets, Covestro created **NeoPac™ HP-5081: an acrylic urethane resin with versatile adhesion properties.**

### Powerful adhesion meets stain isolation

Delivering strong, multifunctional performance from a single hybrid resin, **NeoPac™ HP-5081** helps formulators simplify the development of primers and coatings. This resin directly targets two significant challenges in primer and coatings development: adhesion and stain isolation. The hybrid acrylic urethane composition of **NeoPac™ HP-5081** delivers the powerful adhesion required for primers to achieve strong wet and dry bonding on a wide range of difficult substrates (excluding metal).

Additionally, primers formulated with **NeoPac™ HP-5081** can be designed to effectively isolate stains, potentially eliminating the need for cationic resins, zinc, or other crosslinkers. By also removing the need for separate adhesion promoters or coalescents, this multifunctional resin integrates seamlessly into diverse formulations, streamlining development and reducing overall costs.

### Key benefits of NeoPac™ HP-5081:

- Reliable stain blocking
- Powerful multi-substrate adhesion (excluding metal)
- Abrasion resistance: Scrub class 1
- High pigment tolerance for vibrant colors
- Robust resistance to mechanical and chemical wear

### NeoPac™ HP-5081 at a glance

- Anionic urethane acrylic copolymer emulsion
- Form supplied: ~46% in water
- MFFT: 13°C
- Viscosity: 10-200 mPa·s
- Solids: 46-47%

## Want to learn more?

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<sup>1</sup>Please see the "Guidance on Use of Covestro Products in a Medical Application" document.  
Edition: 2025