



DECOVERY™

Urathix® AT231 Q-80
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Next generation resins for decorative paints

With DECOVERY™, we've explored new ways to meet tighter environmental standards. As a pioneer in low VOC solvent solutions, we invite you to discover our new technological breakthroughs, the thixotropic air drying hybrane® resins Urathix® AT231 and Urathix® AT232, which are part of the DECOVERY™ family. Building on DSM's new, patented technology platform, these resins greatly increase the formulation freedom for both exterior and interior trim paints. Urathix® AT231 and Urathix® AT232 are delivered at 80% solid content in de-aromatised hydrocarbon D40. The products are also available in D60-solvent versions.



Figure 1: By using a combination of the high gel-strength thixotropic resin Urathix® AT232 together with the base resin Uralac® HS230, highly thixotropic paint formulations can be achieved. At application viscosity they are easy to apply, while in the can they are very structured; when undisturbed one could cut out a cube of paint.

	Uralac HS230 Q-90	HS230 with 40% AT232
Uralac HS230 Q-90	100%	60%
Urathix AT232 Q-80 strong thix	-	40%
Appearance paint	liquid	Non-drip solid thix
VOC (gram/liter)	247	284
High shear viscosity 10.000-1s (dPa)	5	5
Gloss 60°	88	92

Table 1: Comparison of Uralac® HS230 with a mixture of Uralac® HS230 and Urathix® AT232

Seek out new performance standards

These two thixotropic resins are uniquely designed to help you reach the performance challenges for compliant topcoats. Going beyond the current performance standards of compliant high solids topcoat solutions, the Urathix® AT231 and Urathix® AT232 make it easy to formulate highly structured/thixotropic or non-drip paint formulations. With 80% solid content, these resins give you great flexibility in your formulations, while retaining excellent drying characteristics and not compromising on hardness development.

Our Urathix® AT231 and Urathix® AT232 are the first thixotropic resins in the decorative market with 80% solids! This gives you, as paint formulator, the advantage to add these thixotropic resins in an unlimited amount, without exceeding the VOC2010 limits. The other advantages of both Urathix® resins are:

- + suitable for hot post addition to a cold mill base
- + excellent balance between thixotropy and flow
- + thixotropic structure resistant against polar solvents like water, propylene glycol, universal colorants and ethanol
- + addition of up to 10% water possible, without negative impact on properties like gloss, structure, stability or flow.

Reaching current VOC limits is not enough

The DECOVERY™ product range focuses on creating a long-term sustainable advantage for our customers. The Urathix® AT231 and AT232 enable you to formulate well below the industry standard of 300 g/liter VOC content for trim paints. The new level of performance does not end here for the new range; we will continue to innovate with future market needs in mind, going beyond legislative requirements.

Don't let technology limit your true potential

Our aim is to develop market driven solutions based on performance, not just technology. The Urathix® AT231 and AT232 differentiate in the topcoat market with high performance properties such as formulation freedom for thixotropic behavior, good drying and hardness development.



Figure 2: When applying thick layers of paint, the tendency to sag can be greatly reduced by using either the medium gel-strength thixotropic resin Urathix® AT231 on its own, or the Uralac® HS230 combined with the high gel-strength thixotropic resin Urathix® AT232.

Discover what's beyond...and start formulating: just download the product documentation from www.dsmneoresins.com

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