BASF
We create chemistry

ACRODUR®

Formaldehyde-free acrylic binders for elevated nonwoven performance

Key features & benefits

- Formaldehyde-free
- Very low VOCs
- Water-based acrylic technology
- B-stage curing compatible
- Outstanding wet and dry strength
- Excellent adhesive and strengthening properties
- Simple and versatile processing options
- Helps to reduce plant emissions
- Supports indoor air quality (IAQ)

Applications

- Glass, synthetic and natural fiber applications
- Roofing mat, i.e., asphalt shingles, built-up roofing (BUR)
- Insulation
- Filtration
- Industrial nonwovens, i.e., flooring substrate, facer mats, veils
- Acoustic wall and ceiling panels
- Abrasives
- Automotive light-weighting
- Composite furniture

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ACRODUR products are high-performance water-based binders for natural, synthetic and glass fiber nonwovens and replace traditional formaldehyde-containing or solvent-based resins such as melamine, urea and phenol formaldehyde to enable safe, simple and ecological handling. ACRODUR thermosetting resin technology not only optimizes finished product performance, but also allows manufacturers to supply low-VOC emitting products, supports indoor air quality (IAQ), helps to reduce plant emissions and saves cost.

ACRODUR is suitable for a broad range of application techniques, including full bath impregnation, foam impregnation, blow-line impregnation, spraying, casting, and blending. ACRODUR can be combined with water, other binders, surfactants, wetting agents, pigments, light stabilizers and flame retardants.

Products	Polymer	Solids (wt. %)	pH	Tg	Viscosity (cps)	Cross-linkability	Impact Resistance	Thermal Stability	Stiffness	Water Resistance
ACRODUR 950L	Acrylic	50	3.5	-	900-2500	Thermoset	Low	Excellent	Excellent	Low
ACRODUR PLUS 2580	Acrylic	59	4	-	400-1200	Thermoset	Low	Excellent	Excellent	Low
ACRODUR DS 3530	Acrylic	50	3.5	-	150-300	Thermoset	Low	Excellent	Excellent	Low
ACRODUR DS 3515	Acrylic	50	3.5	90	300-800	Thermoset	Good	Excellent	Excellent	Excellent
ACRODUR DS 3558	Styrene-acrylic	50	3.5	25	300-800	Thermoset	Good	Excellent	Good	Excellent
ACRODUR Power 4444	Styrene-acrylic	49	3.5	97	50-300	Thermoplastic	Good	Good	Excellent	Excellent

ACRODUR 950L

Solution polymer for thermoset applications that provides excellent heat resistance and stiffness. For use in insulation, abrasives, ceiling tiles, wall coverings, filtration, and specialty glass applications. Can be used as a crosslinker.

ACRODUR PLUS 2580

Solution polymer for thermoset applications that provides excellent heat resistance and stiffness with very low color. The high solid composition also helps contribute to lower transportation costs. For use in insulation, abrasives, ceiling tiles, wall coverings, filtration, and specialty glass applications. Can be used as a crosslinker.

ACRODUR DS 3530

Thermosetting solution polymer with low viscosity that provides excellent thermal stability and stiffness. For use in insulation, ceiling tiles, and specialty glass applications.

ACRODUR DS 3515

Dispersion polymer for thermoset applications that provides excellent thermal stability, flex modulus, and hydrophobicity. For use in coated abrasives and abrasive nonwovens, insulation, ceiling tiles, wall coverings, and specialty glass applications.

ACRODUR DS 3558

Styrene-acrylic dispersion polymer that provides a tough-elastic thermoset with good flexibility, excellent thermal resistance, and excellent hydrophobicity. For use in filtration, abrasives, ceiling tiles, wall coverings, and specialty glass applications.

ACRODUR Power 4444

Thermoplastic dispersion polymer with low viscosity that provides excellent stiffness and water resistance. Provides excellent production flexibility for use in abrasives, ceiling tiles, wall coverings, panels and specialty glass applications.

Contacts

Please contact our technical service department for more help on formulating with products from the ACRODUR® product line.

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