



Primadur® Product Range

Room Temperature Curable Resins for Coatings & Composites



Composite Materials

Primadur® is a commercially novel class of room temperature curable polyaddition thermoset resins. Primadur® brand products are a family of phenol-free, bisphenol-A free, styrene free, isocyanate free and solvent free general purpose thermoset resins with no classified toxic or harmful chemicals.

This results in less worker risk in industrial setting. The Primadur® product range shows good mechanical properties with regard to tensile strength and hardness. The resins can be combined with glass or carbon fibers and can be easily processed by various processing techniques such as hand lamination, infusion, filament winding, RTM and wet compression molding. The pot life can be easily adjusted in a wide range from minutes to hours dependent on the exact requirements.



Applications

Primadur® brand products can be used in a wide range of applications such as boat and yacht building, surf boards, fiberglass pipes, coatings, decorative and adhesives.

Features and Performance

- High hardness
- Good tensile strength
- Low viscosity
- Moderate shrinkage < 2.5%
- Curable at below -5°C
- Good safety profile
- Suitable for hand lamination, infusion, filament winding, RTM, wet compression molding
- Sprayable

Primadur®	Appearance	Color	Viscosity ⁽¹⁾	Curing temperature	Gel time	Equivalent weight
		[Hazen]	[mPas]	[°C]	[min]	[g]
Primadur® A100/B300	Yellowish liquid	100 – 250	200	5 – 80	3 – 240	120 – 126
Primadur® A200/B300	Yellowish liquid	50 – 200	60	-5 – 80	1 – 200	120 – 124
Primadur® A400/B300	Yellowish liquid	100 – 200	220	-5 – 80	3 – 240	133 – 139

Primadur®	Max. Hardness	Tg ⁽²⁾	Decomposition Temperature ⁽³⁾	Tensile Strength ⁽⁴⁾	Tensile modulus ⁽⁴⁾	Strain ⁽⁴⁾
	[Shore D]	[°C]	[°C]	[MPa]	[GPa]	[%]
Primadur® A100/B300	65	85	> 310	55	3.2	2.4
Primadur® A200/B300	60	55	> 310	-	-	-
Primadur® A400/B300	75	105	> 300	58	2.8	3.9
Primadur® Thinner ⁽⁵⁾	-	-	78	-	-	-

(1): Viscosity measured Rheometer MCR 302
(2): Tg onset measured by TMA [10K/min]
(3): Decomposition temperature measured by DSC [10K/min]
(4): Measured in accordance to ISO527
(5): Reactive thinner
Sources: Arxada internal measurements and third-party data for equivalent / similar chemistries on file



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