

Technical Data Sheet

Product Name	Urea – Formaldehyde Resin	Prepared by	Paulius Barvainis
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Description

Urea–formaldehyde (UF) resin is a thermosetting amino adhesive synthesized by condensation of urea and formaldehyde under controlled conditions. It is mainly used in the production of wood-based panels such as particleboard (PB), plywood, and fibreboards (MDF/HDF). The resin provides high bonding strength, rapid curing, and stable processing behaviour under hot-pressing conditions, and is formulated to meet **E1 formaldehyde emission requirements (EN 717-1)**, with other emission levels available upon request.

Resin properties	Unit	Test Method	Standard requirements				
			KF-MEC07	KF-MEC13	KF-MEC15	KF-FE	KF-HMN
Appearance	-	-	Whitish liquid				
Solid content	%	LST EN 827	68.0±1	66.5±1	67.5±1	67.5±1	68.5±1
Dynamic viscosity	mPa·s	LST EN 12092	500±100	600±100	550±100	650±100	350±100
pH	-	LST EN 1245	8.5±1	8.5±1	8.5±1	8.5±1	8.5±1
Gel time	s	-	55±15	60±15	50±15	55±15	60±20
Water tolerance	-	-	(1:2) - (1:5)	(1:2) - (1:6)	(1:1) - (1:4)	(1:2) - (1:5)	(1:2) - (1:5)
Apparent viscosity	s	LST EN 12092	120±30	130±30	135±30	150±30	100±30
Density	kg/m ³	-	1290±10	1285±10	1285±10	1285±10	1290±10
Life time at 20 °C	days	-	30	30	30	30	30

Note: Detailed information on the formaldehyde-to-urea molar ratio and, where applicable, melamine content is available upon request and can be tailored to meet specific customer requirements.

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