

Technical Data Sheet (TDS)

Urea-Formaldehyde Concentrate 85 (UFC85)



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Product Description

Urea Formaldehyde Concentrate (UFC85) is a viscous liquid containing 60% Formaldehyde, 25% Urea and balance water. Formaldehyde is first produced by the reaction of methanol with air. This is then absorbed in urea solution to form UFC85.

It is an intermediate chemical used for many derivatives based on the urea-formaldehyde solution. It comes with high solid content, proper fluidity, low water content & longer shelf life of up to 1 year. Its visual clarity makes it an excellent intermediate compound for chemical/industrial purposes.

Advantages
Low-emission product meeting export standards
Lower Water Content → Faster Condensation
Lower Batch time and Higher Production in the same reactor
Better Molecular weight control and stronger monomer formation
Superior bonding strength with enhanced solid content
More stable and faster curing than conventional formaldehyde-based resins
Lower Energy Consumption → Cost-effective with an extended shelf life of up to 1 year
Consistent Resin Quality
Stable and secure for long-distance transit
Easy Integration with PUF/MUF/MUPF Resin

Specifications	Urea-Formaldehyde Concentrate 85 (UFC85)
Formula	$(\text{CH}_2\text{-N-CO-N-CH}_2)_n$
Formaldehyde Content	60% ($\pm 1\%$)
Urea	25% ($\pm 1\%$)
Methanol	0.30 (Max)
Formic Acid	NIL
Water	By Balance
Physical properties	
Appearance/Physical State	Water Clear Viscous Solution
Odour	Pungent
Viscosity	250 - 500 cP
pH	6 - 9
Specific Gravity @ 25°C	1.320 - 1.325 @ 25°C
Flash Point	79°C (closed cup)

Also available UFC 65/70/75/80 (upon request)

Applications
• Anti-caking agent
• Fertilizers Manufacturers
• Plywood, MDF, HPL & Particle Board Mfg.
• Resins/Adhesives for Panel Manufacturers
• Manufacturing of Urea Formaldehyde Moulding Powder

Packaging Options
• HDPE Barrels
• Intermediate Bulk Containers (IBC)
• ISO Tanks

All information and data, including the formulations and procedures discussed herein, are believed to be correct. However, this should not be accepted as a guarantee of their accuracy, and confirming tests should be run in your laboratory or plant. No statement should be construed as a recommendation for any use which would violate any patent rights. Sales of all products are pursuant to terms and conditions included in Balaji Formalin Pvt Ltd sales documents. Nothing contained therein shall constitute a guarantee or warranty with respect to the products described or their use.

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