



## PRODUCT DATA SHEET

**BLUECRAFT AGRO PRIVATE LIMITED**

An ISO 9001:2015 Certified Company

### AMYLOGUM C-40

<p><b>Description</b></p>	<p>Phosphated/carbamate ester for coating /lamination of paper &amp; board. This modified starch ester have the following typical properties -</p> <ul style="list-style-type: none"> <li>• Improvement in stiffness,</li> <li>• Increase of ink receptivity,</li> <li>• Excellent printing gloss,</li> <li>• Less mottling tendency,</li> <li>• Excellent binding power,</li> <li>• An excellent carrier for optical brightening agents &amp; pigments,</li> <li>• Better supporting of surface strength,</li> <li>• Better control of viscosity / rheology,</li> <li>• Control water retention,</li> <li>• Excellent film forming properties AND</li> <li>• Good dispersibility.</li> </ul> <p><b>The phosphorous content</b> present as bound phosphate ester to amylopectin in starch which gives anionic character to natural binder based on starch.</p> <p><b>The carbamate content</b> gives rise to excellent dispersability during application &amp; flexible film forming characteristics.</p> <p><b>The low Moisture content</b> helps in stabilizing the product storage capability &amp; prevents spoilage of product quality.</p> <p><b>The lower gelatinization temperature</b> helps in freeze thaw stability &amp; also maintains its viscoelastic characteristics.</p>
<p><b>Features</b></p>	<ul style="list-style-type: none"> <li>• It is a fact that paper or board which has been coated with ingredient as co-binder based on naturally occurring starch in formulations contributes to final paper stiffness. The binder shows more synergy towards medium to hard type of the latex.</li> <li>• Effect of starch on the binding power in combination with synthetic latex, certain synergistic effects can be seen at certain binder combination levels. It reveals the replacement of synthetic binder up to some level (around 50% of the synthetic binder) contributes in the enhancement of IGT pick strength . In the application of double or multiple coating the benefit of starch in the pre-coating may be taken like-</li> <li>• Best binding/cost effective performance, Excellent printing gloss and Paper stiffness.</li> <li>• The effect of starch in per-coating can be seen and the improvement in gloss of the top-coat may be brought about by the use of natural binder in the pre-coat</li> </ul>



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### SPECIFICATION: AMYLOGUM C-40

S.No.	PARAMETER	TEST RESULTS
1.	Appearance	Free flowing, off- white powder
2.	Odour	None
2.	Solubility	Fast and complete batch or Continuous cooking
3.	Gelatinization temp.	35 – 40 °C
4.	Moisture content	10 % max
5	Brightness (ISO)	85+
6	pH (10 % solution)	5.5 – 6.5
7	Brookfield Viscosity (25 % paste at 30 °C)	<ul style="list-style-type: none"><li>• 100 – 200 cps</li></ul>
8	Paste Characteristics	Slightly yellowish transparent highly dispersed, non corrosive, stable for longer period, excellent forming properties