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In today's market, consumers increasingly expect products that not only perform well but also maintain their effects over time, whether in personal care, household products, or other functional formulations. To meet these demands, manufacturers use various technologies to improve the stability, retention, and controlled release of their active ingredients - compounds essential to enhancing product functionality.

Cross-linked polymers and resins of specific building blocks are widely used to stabilize and retain these active ingredients, protecting them from environmental factors like

Researchers capable of developing tailored crosslinking systems  
Synergistic combinations of multiple cross-linkers for improved performance

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Controlled crosslinking process with predictable reactivity and manageable kinetics.

Maintain biodegradability at high crosslinking density.

Commercial cross-linkers must include their chemical structure in the proposal.

Proposals should include a brief rationale explaining the potential effectiveness of the cross-linker.

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Perform well under moderate conditions (up to 100°C, 1 - 2 atm pressure).

Accommodate a range of molecular weights (up to 5kDa).

Scalable for industrial production (hundreds of metric tons).

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