



MORINGA GUM USES

Sathish M* and C Venkatesh

Assistant Professor, Department of Horticulture, J K K Munirajah College of Agricultural Science,

T.N.Palayam, Gobi, Erode-638506

***e-mail: sathishhort@gmail.com**

INTRODUCTION

Moringa oleifera is a multifunctional tree that grows in the Himalayan foothills of northern India. Because of its resilience to various climates and soil types, it is now grown in tropical and subtropical regions all over the world. It has a lengthy history of use in numerous traditional medical systems. Its leaves, seeds, petals, and roots are all used for their medicinal benefits. Moringa gum, often called gum Arabic, is a natural gum derived from the sap of the moringa tree's trunk and branches.



USES OF MORINGA GUM:

1. Food Industry: In the food business, moringa gum is frequently used as an emulsifier, thickening, and stabilizing agent. It is frequently used to enhance texture, viscosity, and shelf life in drinks, candies, baked goods, dairy products, and sauces. It aids in avoiding sedimentation and cloudiness in beverages.

2. Pharmaceuticals: In tablet formulations, moringa gum is used as a binder, disintegrant, and sustained-release ingredient in medicinal applications. It can help with medication

distribution by enhancing the tablet's dissolving properties and consistency.

3. Cosmetics: Moringa gum is used as a binding agent in creams, lotions, and gels that are used in cosmetics and personal hygiene products. It helps make products more spreadable, improve texture, and stabilize emulsions.

4. Textiles: In the textile industry, moringa gum is occasionally used as a sizing agent for yarns and textiles. It gives fibers a brief boost of stiffness and smoothness, which makes weaving easier and enhances the way fabrics handle.

5. Printing: In the printing industry, moringa gum is used as a binder and thickening for inks, especially water-based inks used in lithographic and flexographic printing. It enhances print quality and aids in the regulation of ink viscosity.

6. Adhesives: Gummed tape manufacturing, envelope sealing, and paperboard lamination are just a few of the uses for moringa gum as a natural adhesive. In some situations, its adhesive qualities make it a more environmentally friendly option than synthetic adhesives.

7. Art Conservation: In art conservation, moringa gum has been utilized as a natural glue to strengthen and restore delicate artworks, manuscripts, and artifacts. Because

it is reversible and works well with historical materials, it is appropriate for conservation.

8. Water Treatment: The potential use of moringa gum as a flocculant and coagulant aid in water treatment has been studied. By aggregating suspended particles and pathogens, it can aid in the clarification of turbid water by making their removal through filtration easier.

CONCLUSION

Natural moringa gum has several industrial uses, ranging from food and medicine to textiles and art preservation. It is a desirable element for many companies looking for environmentally friendly substitutes for synthetic additives because of its non-toxic nature, biodegradability, and renewable source.