

NATURAL RESINS



MASTIC

SANDARAC GUM

DAMAR ABC

COPAL PWS

BROWN EAST INDIA

BLACK EAST INDIA

Natural resins are secretions (also called exudates), which drip out of the tree when the bark or root of a tree is wounded by nature or man. Since early times, resins have been key ingredients of coating materials for decorative and protective purposes. Categorized as oil soluble or spirit soluble (spirit is alcohol or related solvents), natural resins are insoluble in water. Natural resins are further classified into four major types, Damars, Copals, East Indias and a miscellaneous class including Mastic and Sandarac.

NATURAL RESINS

COPAL

Alcohol and Ketone Soluble

Copals are native to Indonesia. Copal resin is used as a raw material for varnish because it has good storing quality, and produces a lustrous, elastic finish with good weather properties. These varnishes are used in the manufacture of wood and paper products. Other applications include linoleum, oilcloth, printing inks, adhesives and floor and shoe polish. Copal has also found application in the manufacture of dental products.



Scrapped



DBB Chips



PWS

EAST INDIA

Dark-Semi Recent Solvent Oil Soluble

East India resins are soluble only in aryl hydrocarbons and hydrogenated aliphatic hydrocarbons. They are not obtained through the tapping of trees, but are collected as natural exudations where found, mostly in Indonesia. Related to Damars, Black East India is dark upon application, but rapidly bleaches to a transparent film comparable in color with varnishes made from very light resin. East India resins are principally used in adhesives, cements, glass paint, printing inks, plastics, oil cloth and incense.



Brown East



Black East

MASTIC

Soft-Soluble in Isopropyl Alcohol, Acetone, Chloroform and Ether

Chios Gum Mastic is the air-dried resinous exudation from *P. lentiscus* L, a shrub of small evergreen tree native to the Mediterranean region and cultivated on the Greek Island of Chios. Mastic is used in wood coatings, lacquers, adhesives, and printing inks. Also used by artists to protect oil and watercolor paintings, it is more flexible than other resins and can be removed from paintings without damage to the surface. Mastic is also used in the manufacture of adhesive bandages.



SANDARAC

Soluble in Alcohol

Sandarac is one of the oldest known resins used in preserving fine paintings and furniture. Used in spirit varnishes, lacquers, and dental products, sandarac provides a hard, white or transparent film. It is still extensively used to make a protective film over watercolors.



DAMAR ABC MIX

Soluble in Aryl and Aliphatic Hydrocarbons, Terpenes

Used primarily in ink, paint, polish, varnish, and finishing compositions, damars provide depth and retention of gloss, superior color, adhesion, and flexibility. Damar also provides resistance to fumes, scuffing, and grease.



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