

**Description**

Plexmate is an elastomeric acrylic latex rubber, which forms a tough, flexible membrane and is designed for the protection of urethane foam roofing. It is specially formulated to dry faster and have higher adhesion. Plexmate has been formulated to have outstanding wet film integrity with better resistance to re-emulsification and it develops maximum adhesion more rapidly. Plexmate has outstanding exterior durability, color retention and ultraviolet stability. It provides a surface that is highly resistant to dirt pickup, yet is extremely flexible and has high tensile strength and elongation. Plexmate has Underwriters Laboratories 790 Class A rating polyurethane foam roofing materials. Plexmate, per square foot, provides one of the most economical methods for protecting urethane foam against damaging ultraviolet rays weathering. No costly solvents are required in reducing, thinning or clean up. The thixotropic nature of Plexmate provides the ability to apply the necessary thickness with ease, even on rough or vertical surfaces, without pin holing or sagging. Plexmate provides more economical coverage. The higher solids provide greater coverage per square gallon, which means faster application rates. Plexmate has less shrinkage of the film, resulting in better film integrity. Plexmate, after curing, has exceptional resistance to most forms of ponding water. A 30 mils thick film of Plexmate immersed in near boiling water (200° F) for 14 days showed negligible change in physical properties. Plexmate demonstrates excellent flexibility over a range of extreme temperatures, even at subzero temperatures. Plexmate has a balance of elongation and tensile strength properties, which provide resistance to impact and mechanical damage.

**Application**

Plexmate is a single component water based composition that offers easy application and clean up. For optimum performance, a minimum thickness of 30 mils (dry) is required. The application rate of 30 mils is approximately 3 gallon per 100 square feet based on theoretical coverage in two 1-½ gallon applications. Plexmate is designed for airless spray equipment. Plexmate may also be brushed or rolled on to substrate for trim and touch up work. Standard airless spray equipment should be equipped with a minimum pump, tip and hose listed below.

Pump ratio	30:1
Tip size	0.030 – 0.045 inch
Fan angle	60° to 80°
Hose diameter	½ inch (high pressure hose)

**Mix Ratio**

Plexmate is a single component, which requires no additives or combining of materials to insure uniform color and consistency. It is recommended that the material be thoroughly mixed with a power agitator for a short time before using. Thinning is not normally required. Plexmate dries to firm touch in 10 to 15 minutes at 80° F. The dry time will be longer with high humidity, cooler temperatures and greater film thickness. Plexmate is easily repaired with brush or roller for small repairs. Use tap water to clean equipment. Do not apply when ambient air temperature drops below 50° F. Proper film integrity depends on the coalescing process of the latex to occur above 50° F during the first 6 hours of the drying period. Lower temperatures will sacrifice the film properties and may cause poor adhesion and surface cracking. Do not apply over wet substrate or when inclement weather is approaching. As characteristic of all acrylic, Plexmate has a high moisture vapor permeability and is not recommended over cold storage installations and roofing with long-term ponding water. Proper air ventilation is recommended in enclosed areas. As a water based coating Plexmate is non-flammable.

**Typical Properties**

Viscosity	Specific Gravity	Weight Per Gallon
500 cps		11.0 ± 0.5 lb.

**Physical Properties**

	Test Method	Value
Hardness		Shore
Tensile strength	ASTM D 412	580 psi
Elongation	ASTM D 412	140%
Tensile modulus	ASTM 412	570 psi
Tear strength	ASTM 624	105 lb.

**Storage**  
**Shelf Life**

Plexmate should be stored in the original, unopened containers in temperatures between 45° F and 80° F. Shelf life of material when kept in unopened sealed containers at the recommended storage temperature is 12 months. Containers should not be opened until ready for immediate use.  
Plexmate will be damaged if frozen. Do not store material at temperatures below 45° F.

**Packaging**

Plexmate is available in convenient 1-quart, 1-gallon, 5-gallon and 55-gallon containers.  
Plexmate has a non-hazardous rating for shipping.