Prolite Microsphere Filler Blends extremely low density can replace other higher density raw materials thus **reducing the weight** of your product while **increasing your volume** and **lowering your cost** by volume. Reduced weight can mean better gas mileage, lower freight cost and easier product handling. In addition, the use of Prolite can **reduce shrink**, **lower VOC’s**, provide **thermal insulation**, and **sound reducing** properties. If you are already using a lightweight sphere, by moving to a lightweight blend you can reduce the number of separate additions to your batching, greatly simplifying your process and reducing potential of errors.

**Benefits of using Prolite Blends**
- Reduced Weight
- Thermal Insulating
- Reduced Cost
- Closed Cells
- Reduced Shrinkage
- Reduced VOC’s
- Sound Insulating
- Sand-ability

**Processing Features of Prolite Blends**
- Sprayable
- Shear Stable
- Compressible
- Pumpable

Prolite Blends microspheres are made up of a co-polymer membrane encapsulating a hydrocarbon. When heated, the co-polymer membrane softens while the encapsulated hydrocarbon starts to gasify and exert expanding pressure to the soft membrane, resulting in a controlled expansion.

Prolite Microsphere Filler Blends can be used as a lightweight filler in many applications.

- Paints
- Coatings
- Polyester Putty
- Caulks
- Sealants
- Foam Tooling Board
- Under-body Coatings
- Fiberglass Spray-up
- Cultured Marble
- Concrete
Prolite Microsphere Filler Blend Benefits

**Reduced Weight**
The use of a Prolite Blend can provide considerable weight reduction. Due to its extremely low density, Prolite Blends will volumetrically displace other higher density fillers.

**Lower Cost**
The use of a Prolite Blend can result in significant cost savings. This is because Prolite Blends can volumetrically replace more expensive resins and binders.

**Closed Cell Structure**
Prolite Blend expanded polymeric microspheres unique uniform closed cell structure will reduce water penetration and provide a more uniform foam product as compared to a blowing agent or open cell structure lightweight additive.

**Sand-ability**
Prolite Blend products have very low abrasiveness and are easy to sand.

**Thermal Insulating**
The use of Prolite Blends will reduce thermal conductivity of the final product. This is accomplished by its hollow, closed cell structure, which introduces closed voids into the material.

**Sound Insulation**
The use of a Prolite Blend in under-body coatings will give improved sound and vibration insulation properties.

**Reduced Shrink**
Prolite Blends have a low resin/binder demand. Adding Prolite Blends to a matrix with a shrinking resin/binder can result in less shrink, improving the properties and finish of the end product.

**Reduce VOC’s**
The use of Prolite Blends will volumetrically reduce resin/binder which reduces VOC emissions from the resin/binder.
Prolite Microsphere Filler Blends Processing Features

Shear Stable
Prolite Blends polymeric microspheres are virtually unbreakable during high shear stress. The Prolite Blends lightweight spheres flex and absorb the high shear.

Compressible
Prolite Blends under compression will act like a balloon, compressing and elongating while under pressure and popping back to sphere form as soon as the pressure is released.

Pumpable
As with the shearing, Prolite Blends can be pumped virtually undamaged because of its extremely low density and elasticity.

Locations
The R.J. Marshall Company processes and ships Prolite Blend products from three (3) processing locations in the United States.

Valley Springs, CA (near Sacramento)
Rockwood, MI (near Detroit)
Alpine, AL (near Birmingham)