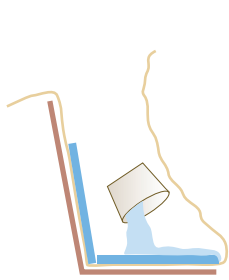
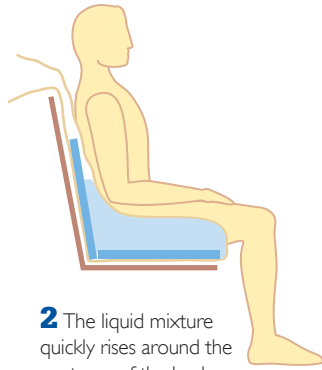


# Liquid SunMate® Foam-In-Place Seating



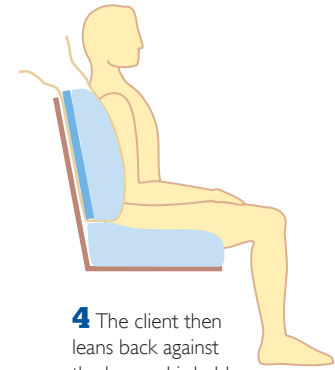
**1** To make a FIPS total insert, place the molding bag, with base cushions inserted, in the chair. The FIPS ingredients are mixed and poured into the molding bag. The client is then quickly transferred onto the bag, and is held in position during the foaming process (about 5 minutes).



**2** The liquid mixture quickly rises around the contours of the body and sets into a solid cushion in a matter of minutes. The custom-molded seat cushion is then removed, trimmed and placed back in the chair before molding the back cushion.



**3** A new molding bag, with base cushion inserted, is placed behind the client, who has been repositioned in the chair. The client leans forward while the technician pours the second FIPS mixture into the bag.



**4** The client then leans back against the bag and is held in position during the foaming process. After about 5 minutes, the custom-molded back cushion is ready to be removed, trimmed, glued to the seat insert and finished.

## Developed to meet the needs of the severely disabled, FIPS with Liquid SunMate provides:

- assistive seating technology for complex positioning
- advanced posture control
- even pressure distribution
- improved blood circulation
- pressure point relief
- relief of soreness and fatigue
- improved bodily functions
- slowing of progressive deformities
- seating solutions in a matter of hours
- tested, proven and accepted results by orthopedic professionals worldwide

## FIPS has the technological advantage.

SunMate® is a viscoelastic cushion material with "memory". It flows to match the body's contours, and slowly returns to its original shape once pressure is removed.

SunMate is an open-cell foam which maximizes the flow of air through the cushion to reduce heat buildup. The cell structure alleviates sitting fatigue through uniform pressure distribution and impact energy absorption. When fabric-finished, a SunMate FIPS insert can withstand years of use. For these reasons, SunMate is the preferred seating material for race car drivers, aircraft pilots, mining vehicle operators, and long-haul truckers.

## You can have a finished insert in 6 hours at your facility.

The FIPS process was designed to be fast and efficient. It takes less than 2 hours to make an insert – seat and back! That includes a trial run-through, mixing, pouring, positioning, curing, and trimming. The insert can be fabric-finished and waterproofed in about 2 to 4 hours. The ease and versatility of the FIPS system makes it ideal for trial seating and emergency applications.



## FIPS is versatile, safe and inexpensive.

Because it can quickly mold to any shape or size, Liquid SunMate can be used for many different applications: temporary foam supports, geri chairs, supine lyers, head rests, and foot supports, to name a few.

SunMate and Liquid SunMate have naturally low levels of toxicity because natural ingredients constitute up to 42% of its formulation. This adds a sense of freshness you won't find in other seat cushions.

Liquid SunMate does not contain fire retardant additives, because they can release deadly fumes in a fire. However, a coating that is nontoxic, fire-retardant, waterproof and elastic may be applied to FIPS inserts,

allowing them to maintain a low-level fire toxicity rating while meeting the tough standards of the California fire tests. SunMate also passes the strictly enforced slow burn fire codes of Canada without the use of fire retardants.

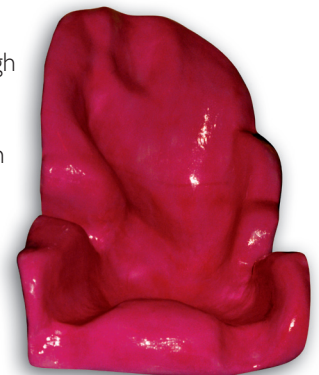
## Liquid SunMate is formulated for your specific needs.

Liquid SunMate is available in three standard formulations: soft, medium and semi-rigid.

The **soft** formula offers low-pressure support for sensitive pressure areas, milder deformation needs, or for small, lightweight clients.

The **medium** formula is suitable for clients with body weights up to and including 300 lb. It yields less than the soft formulation under pressure, providing added support.

The **semi-rigid** formulation, though rarely used for wheelchair clients, creates a very firm yet lightweight support base. It is often used in race car seating as a high-impact energy absorption material.





Fabric-finishing a total insert



FIPS Bag Pack



FIPS Bowl Pack

## Learning how to use FIPS.

For your safety and the safety of your clients, one of following training methods must be completed and verified before orders for FIPS will be accepted.

Training materials are free. Once your training verification is on file, you may begin placing orders for FIPS.

### Instruction Manual and DVD

You can learn to use Liquid SunMate on a do-it-yourself basis using either the Instruction Manual or DVD. Both are offered free of charge, and provide step-by-step details of the entire FIPS process including safety procedures and finishing techniques.

The 33-minute video takes you through an actual client pour carried out at the Black Mountain Rehabilitation Center in North Carolina, and includes helpful tips for successful pours.

### Introductory Kit

We encourage those who are new to the FIPS process to perform a trial run using the Introductory Kit. This is an excellent way to prepare for the actual pour, and affords trainees the opportunity to make a "practice" cushion before molding an insert for a client.

The kit includes an Instruction Manual and one unit of Liquid SunMate to mold either a seat cushion or a back cushion. Also included in the kit are the necessary accessories needed to work with Liquid SunMate.

### FIPS Workshops

Those who can provide verification of training from a FIPS workshop may also order Liquid SunMate. If you are interested in attending a workshop, please contact the Dynamic Systems Customer Service Department (1-855-SUNMATE) for more information.

### Choose the mixing technique that's right for you.

There are two methods of mixing Liquid SunMate. Both techniques produce the same result, but have different advantages.

The **Liquid SunMate Bowl Pack** consists of three individual bottles, each containing pre-measured chemical ingredients.

The **Liquid SunMate Bag Pack** involves a unique, three-compartment, foil-laminate bag. Each ingredient of the Liquid SunMate formulation is contained in a separate, sealed-off section of this bag.

Every FIPS package contains safety and handling instructions, step-by-step mixing instructions and winter heating instructions.

### Available Quantities

The FIPS system is available in 1/3, 1/2, 1 and 1 1/2 units. The 1/3 and 1/2 units are used for small molds such as foot and head rests. (1/3 units are available in Bowl Pack only). One full unit will create a seat cushion or a back cushion. The 1 1/2 unit is adequate for molding a high-back wheelchair, and 2 units will create a total insert.

## Case Studies

### Eldercare Nursing Home of Farmville, Rehab Department

An 82-year-old bedridden male suffered from multiple decubitus ulcers on his hips, ankles and heels. After trying several different seating systems, including a reclining geri-chair; a reclining seat, a standard wheelchair and wheelchair with a generic back insert, repositioning and increased pressure continued to be a problem. Finally, a tilt-n-space wheelchair was tried for its adjustable armrests, adjustable seat length and high-contoured padded backrest. Liquid SunMate Foam-In-Place Seating was used to make a seat insert and lower extremity foam positioner. The following improvements were noted with this combination:

- improved alignment to near 90° of hips & knees
- improved digestive system
- improved respiratory system
- easier transitions in and out of chair
- toleration of 3-4 hours of upright sitting while maintaining good body alignment

### Thoms Rehabilitation Hospital, Seating and Mobility Clinic

A 22-year-old male with cerebral palsy, a severe rotary scoliosis and right pelvic obliquity was molded in his first FIPS insert when he was 18. Three years later, his scoliosis had progressed and he no longer fit into his seat. A second insert was molded for him. The FIPS process proved a cost-effective way to provide a custom-made seat and back cushion. The FIPS total insert was easily modified on the fitting day to obtain full-contact support and accommodation for his severe deformations. The insert was then covered in interlock knit fabric and waterproofed.

His new seating system gave him the ability to attend and participate in his day program and sit in his insert for most of the day. Because a head support was incorporated into the FIPS insert, he is also able to face forward and see what is going on around him.

### Saskatchewan Specialized Seating Program

An 18-year-old male with traumatic quadriplegia, kyphoscoliosis, upper and lower limb deformities and other related problems, posed a major challenge for his wheelchair positioning. His spine was becoming increasingly kyphotic, and the resulting weight-shift was causing skin irritation over his ischial tuberosities and lower spinous processes. As he grew, his spine collapsed into further flexion and he lost the ability to operate his own wheelchair, standard or electric. He required Harrington rod instrumentation and was fitted with a FIPS insert. Modifications included a recess cushion placed into the FIPS insert to minimize pressure on the coccyx. An abdominal pad, belt and thoracic supports were also added to assist trunk support.

Since being fitted with the FIPS system, the client has good sitting posture, adequate spinal support and no further problems with pressure sores. He can spend up to 14 1/2 hours a day in his chair; minimizing the number of required transfers. The seating system provides enough security and support that he is now able to travel independently in his electric wheelchair at home and at school.

### To place an order, contact:

**Dynamic Systems, Inc.**  
orthopedic & specialty cushion  
manufacture since 1969

104 Morrow Branch Road  
Leicester, NC 28748 USA  
Toll Free: 1-855-SUNMATE  
dsi@sunmatecushions.com  
www.sunmatecushions.com

### in Québec, Canada contact:

**PHYSIPRO**  
Exclusive distributor of Liquid SunMate®  
Foam-in-Place Seating, Québec, Canada

370, 10e Avenue Sud,  
Sherbrooke, Québec J1G 2R7 Canada  
Toll Free: 1-800-668-2252  
physipro@physipro.com  
www.physipro.com