

for energy savings in production. Keeping processing time at optimum levels, the elastomer allows processors to have control over the pot-life and demould time, providing flexibility in terms of the

size of parts that are being produced; and is thus designed to give optimal throughput, says the manufacturer.



[www.dow.com](http://www.dow.com)

**Hyperlast elastomers have proved their functionality in many applications, from dynamic bend stiffeners to a variety of industrial components, such as timing belts, rollers and tooling parts.**



Source: Dow Chemical

### Demilec adopts Solstice LBA in new spray foam insulation

In April 2017, **Demilec**, one of North America's largest manufacturers of spray foam insulation, introduced a new product formulated with **Honeywell's Solstice Liquid Blowing Agent (LBA)**. The spray foam insulation system **Heatlok HFO High Lift** is now available for use in commercial and residential wall insulation. Demilec announced that it has made a commitment to transition all of its closed-cell foams from hydrofluorocarbon (HFC) blowing agents with high global-warming-potentials (GWPs) to alternatives with ultra-low GWP such as Solstice LBA over the next 18 months. The transition is occurring well ahead of regulations calling for a phaseout of HFCs, says the company. According to Honeywell, Solstice LBA has an ultra-low GWP of 1, which is

99.9 % lower than HFCs and equal to carbon dioxide. The product can provide a higher yield, reduce clogs in the spray guns the installation teams use, create better consistency of the foam itself, and it can provide better adhesion. It is non-flammable (ASTM E-681) and is not a VOC per the US **Environmental Protection Agency**. The product is listed as an acceptable substitute for HFC blowing agents under the EPA's Significant New Alternatives Policy (SNAP) programme. To meet increasing worldwide demand, Honeywell's Solstice LBA world-scale manufacturing plant in Louisiana started up in May 2014.



[www.demilec.com](http://www.demilec.com)

[www.honeywell.com](http://www.honeywell.com)

### New low free TDI prepolymers for demanding dynamic applications

**Era Polymers** now offers a new range of low free TDI prepolymer grades, the **Erapol XLE** (polyether) and the **Erapol XLS** (polyester) series. Both series have a very low free TDI content of less than 0.1 %, a low viscosity and long pot life, which makes for greater flexibility and ease of processing.

The XLE product range is a new generation of liquid isocyanate terminated prepolymer based on 100 % PTMEG polyether polyol with the added benefit of extremely low free isocyanate. Erapol XLE is available in the following Shore hardnesses: 90A, 93A, 95A, 75D. The XLS product range includes an isocyanate-terminated polyester-based polyurethane prepoly-

mer with an extremely low monomer content, formulated for use with MOCA curative. Available hardnesses are 85 Shore A, 90 Shore A, and 95 Shore A.

Both series are typically used for demanding dynamic applications such as high speed forklift truck tyres, rolls and gears, and die pads.

[www.erapol.com.au](http://www.erapol.com.au)

**The new prepolymers are well suited for parts in dynamic applications.**



Source: Era

### FDA-compliant PU seal for direct food contact

**Sonderhoff** announced that a new polyurethane foam seal in its **Fermapor K31** product range has received US **Food and Drug Administration (FDA)** conformity, which is considered to be a recognised standard for food packaging worldwide. The Fermapor K31 seal is applied automatically, precisely and seamlessly in the lid groove of drums and hobbocs using a Formed In-Place Foam Gasket (FIPFG) process and cures at room temperature. The PU seal is also approved for direct contact with food in accordance with the EU Regulation No. 10/2011,

which became effective on 1 January 2016. The product is used as a seamless lid seal for food containers with a filling volume from two litres. It is suitable for use in direct contact with aqueous, acid, alcoholic, fatty and dry raw food materials. This also ap-

**Fully automated insertion of the FDA-compliant Fermapor K31 PU foam seal into the groove of plastic drum lids with a Sonderhoff mixing and dosing system**



Source: Sonderhoff

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plies for cold or hot filled or pasteurised milk and for milk products. The product is characterised by low water absorption, optimal adhesion to plastic and metal, and very good migration behaviour for the seal material used in the formula. According to Sonderhoff, independent testing institutions certify that the values determined for total migration in

the seal material are below the threshold value in the EU Regulation No. 10/2011 of 10 mg/dm<sup>2</sup>. The odour and flavour as well as the appearance and consistency of the food contained in the lidded drums are not changed as a result.



[www.sonderhoff.com](http://www.sonderhoff.com)

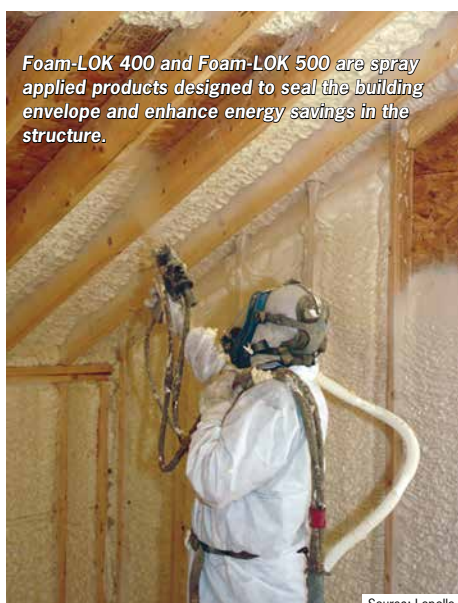
### New ultra high yield spray PU foam insulation

**Lapolla Industries, Inc.** recently introduced its all-new **Foam-LOK 400** and its improved **Foam-LOK 500** open-cell spray PU foam insulations for residential and commercial buildings. Foam-LOK 400 is notable for providing ultra-high yield and enhanced energy efficiency, says the company. It can be used in attics, cavity walls and other critical insulation areas. The spray applied material seals the structure, providing a continuous air barrier, offering exceptional performance in the reduction of heat transfer. According to Lapolla, the material outperforms fibreglass and blown-in insulation options and comes close to being cost competitive with traditional insulations. Foam-LOK 500 is designed to form a completely sealed air barrier in wall cavities and enhance energy conservation and energy savings in the structure. It is said to provide high-yield benefits and is ideal for a variety of building envelope applications including use in walls, floors, ceilings (including vaulted and cathedral

style) and attics, says the company. Both products firmly adhere to most building materials and framing members. Additional benefits include noise attenuation and significant reduction in unmanaged moisture. In addition, both products have passed the AC 377 End Use Configuration Criteria and meet building code requirements for use with no additional ignition barrier required. Furthermore, both products have been approved for use in the construction of **Meritage Home's** new communities nationwide.



[www.lapolla.com](http://www.lapolla.com)



*Foam-LOK 400 and Foam-LOK 500 are spray applied products designed to seal the building envelope and enhance energy savings in the structure.*

Source: Lapolla

Seoul, Republic of Korea  
November 1 - 2 - 3 - 2017



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