

## Company | News

# New Adhesives Line From Franklin

By Jeanne Tranter

**F**ranklin Adhesives & Polymers, a division of Franklin International, has just launched a noteworthy new line of adhesives that are the strongest – and among the quickest setting – available for fabricating filters.

Dubbed FilterFAB, the new line launches with three impressive adhesives that, together, can handle most bonding applications in filter assembly. Included are two water-based Polyvinyl Acetate (PVA) adhesives for assembly and a polyurethane filtration adhesive for end cap potting and edge/frame sealing.

The two PVA adhesives – FilterFAB 200 and FilterFAB 300 – offer instant set time and unsurpassed bond



*The FilterFAB PVA adhesives line*

strength, increasing the filter manufacturer's efficiency and product durability. Franklin put them both to the test in its laboratory and demonstrated that they provide superior

bond strength over other filter fabrication adhesives. The testing measured paper tear on filters exposed to high heat and humidity for four days. Filters assembled using the FilterFAB adhesives had significantly more paper tear than the filter assembled with a competitive adhesive. More paper tear translates to more strength – and increased assurance of robust bonds.

The adhesives are as quick as they are strong, speeding up the

production line. FilterFAB 200 offers a set time of less than 30 seconds – making it one of the fastest-setting adhesives available for filter assembly. Its sister adhesives, FilterFAB 300, is a high-performance PVA ethylene copolymer emulsion adhesive with very strong green and tensile strength. It sets almost immediately with some repositionability. In most cases, this adhesive eliminates the time-consuming requirement for clamps.

Nor will the need to mix either of these one-part PVA adhesives hold up production. Their water-based formulation also saves time in cleanup. And they are compatible with most glue spreader systems, making it easy to introduce them into existing production lines.

The third adhesive in the line, FilterFAB 2000, offers capabilities beyond its PVA counterparts. This two-component, solvent-free polyurethane adhesive is extraordinarily versatile. Filter manufacturers can use it to assemble air and liquid filters – and to pot filter end caps and bonding seams. It bonds well to a variety of different substrates – metals, PVC, vinyl, fiberglass and cellulosic materials – and offers good chemical resistance as well as good heat resistance with temperatures below 170°F. For expanded versatility, it is available in two colors, beige and



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FilterFAB 2000 holds its own when it comes to quick set time and bond strength, too. Filter manufacturers can use heat to accelerate an already efficient room-temperature cure time of three to five minutes. The adhesive reaches handling strength in less than ten minutes, enabling filters to move quickly to the next step in the production line.

Once fully cured, this polyurethane adhesive achieves very strong bonds, as well. It measures Shore D Hardness of 80 to 82. (Hardness is measured by an indentation in the material created by a given force on a standardized presser foot. For the sake of comparison, a hard hat measures Shore D hardness of 75, according to the Wikipedia entry for "shore durometer," the measurement device used to measure hardness). In short, FilterFAB 2000 will measure up to the most demanding expectations for high performance.

"More than 76 years in adhesives development for industrial applications – including a 15-year focus on the filtration industry – stand behind the introduction of our new FilterFAB line," said Jaye Schroeder, the division's vice president of market development.

"We are very excited to deliver these FilterFAB adhesives to filter manufacturers – and we look forward to continuing to innovate advanced solutions to meet the range of bonding needs in filter fabrication."

Franklin Adhesives & Polymers also produces dozens of other specialty polymers, wood adhesives for wood products assembly, and pressure sensitive adhesives for label manufacturers. Its sister division at Franklin International produces Titebond wood glues and construction adhesives and sealants.

For more information contact:

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## In Memoriam

### George Gil, President of Chase Machine & Engineering

George G. Gil, 72, passed away on Sunday, December 18, 2011 at Rhode Island Hospital in Providence. He was President of Chase Machine & Engineering, a worldwide leader in the manufacture of custom web handling equipment. George started his career at Chase Machine when he was 16 years old and, in 1984, bought the company. Under his leadership, Chase Machine grew from a manufacturer of equipment for the textile industry to complete machine and manufacturing system design for the medical, converting, filtration, textile, and geotextile industries. George was the loving husband of Maria Gil, who is Executive Vice President at Chase Machine, and father of Guy Gil, the company's national sales manager, and his wife Linda. He also leaves his mother, Bertha, and a daughter, Monica and her husband David. George was passionate about his business and considered his employees to be family. He always said, "I am a happy man, I have a wonderful life" and that is a source of comfort to his family. Contributions in George's memory may be made to Saint Elizabeth Community, One Saint Elizabeth Way, East Greenwich, RI 02818, where he volunteered for many years.



George G. Gil

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