

Era
Polymers

THE Herald
ERA POLYMERS NEWS BULLETIN



ANZAC DAY

They shall grow not old, as we that are left grow old:
Age shall not weary them, nor the years condemn.
At the going down of the sun and in the morning,
We will remember them.

lest we forget



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LESSONS FROM LIFE # 25 ▼
BONEGILLA- STRANGERS IN A STRANGE LAND

Alex, our son, is not a “ cry-er ” ...i.e. it takes a lot to bring him to tears. But he mentioned to me early last year, something interesting.

He cries watching a good movie, On airplanes, at 35,000 feet above sea level .

He figures that it must be the lower air pressure on board, which makes the tear ducts work overtime!

That’s HIS theory, anyway.

And me... I find it very easy to cry... no shame, no embarrassment, no tightly controlled emotions.

I cry when I’m happy. I cry when I’m sad. I cry when I see all the injustices of the world. I cry when I see poverty, that I just can’t comprehend. I cry when I see all those wasted lives. All those children who never have a chance.

(Continued Page 2)

ERA POLYMERS: POLYURETHANE TRAINING IN SESSION ▼

FEBRUARY 2019

On the 25th of February 2019 Era Polymers welcomed 30 of our esteemed agents, distributors and clients from our Asian industry sector for their annual polyurethane training seminar held at Era Polymers Headquarters in Banksmeadow, Sydney Australia.



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I think that crying is an age related thing ... i.e. you find it easier, you find more reasons to cry, when you get older.

Well, that's MY theory, anyway.

"So, when was the last time YOU cried, George?"

Two times...recently .

YESTERDAY (25th APRIL 2019) was ANZAC Day (the Americans call it Veterans Day).

Unless you were born or grew up in Australia, you would not understand the significance, the importance of THAT day ... how it has become THE day, in the Australian psyche.

Embarrassingly, yesterday, was the FIRST day in my 69 years, that we attended a Dawn Service, at the local RSL (Returned Serviceman's Club)... I have no idea, why we haven't gone before.

So, we parked down the road from the Club. It was 5:45 am.

The kookaburras were up early, singing their songs. The march was just beginning. The single drummer, drummed the beat.

The moment, the significance of honoring those who lost their lives, and who continue to do so , to save our way of life. The stories my father, told me about the Albanian War, got to me..

And I cried.



I wasn't the only one crying that day, the bugler was to play, The Last Post.... he too lost it, after the first two notes.

AND,THE SECOND TIME ?

In January, Tina and I, did a mini "road trip" from Sydney to the Barossa Valley, to spend some time with some very good friends Kym and Pam, and to drink some VERY good wine...

then Adelaide, then Melbourne, then a drive back to Sydney ... about 4,000 kms, all up.

In Melbourne, we caught up with Ryan Livera, as we always do. Ryan's parents hail from Sri Lanka. Ryan's parents came out in 1972, Ryan was born, in 1979.

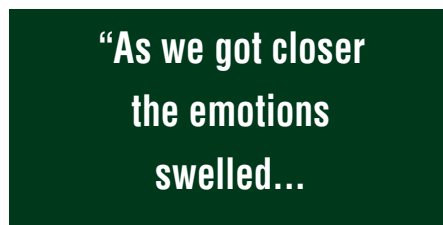
So, as he says, he too has a foot in both camps.... Australian and Sri Lankan, culture.

On the way back from Melbourne, we stopped at a magical place called Bonegilla.

Why is it so special?

We landed in Melbourne in September 1954 (I was 4 years old). Back then they trained you up. We spent a month there... you were processed there ,and then went on your merry way..

Dad, chose to come to Sydney .. and here, we still are.

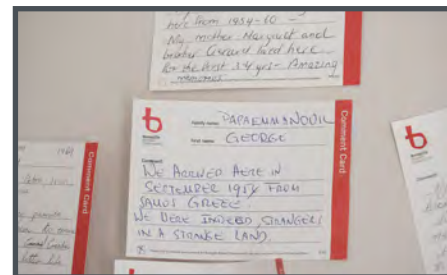


Over 300,000 Europeans went through Bonegilla.. Today their descendants number over 1.5 million !

Dad and mum had always told me stories about the place. At the age of 4, I have ZERO memories to fall back upon...just theirs !

As we drive closer to the place, I called my sister Ella (she was 13 at the time) ..to ask HER, of HER strongest memory... she remembers going to the local store to buy "Renga" (Greek, dried herring). Strange what the mind stores ,in its long term memory banks !

So, now the place it is a living museum.. There used to be over 40 huts.. they've kept 6.



As we got closer the emotions swelled..

The hard life both our parents endured. The First World war. The Depression. The Second , the Civil War in Greece, which broke dad's spirit..

And at the age of 40 (Mum) and 42 (Dad) with a third class primary school education, packing their bags and coming to a Strange Land.

The first photo that I took, that day, what just that ,a poster titled;

" Strangers in a Strange Land "



That was us .. That was 300,000 others at Bonegilla, and millions more like Ryan's parents who came to a Promised Land, for a better Life..

All those emotions that flowed through my parents lives' ,all their lives, flowed through my mind, as well that day.

And I cried.

I've lived here 65 years.

Our immediate family is 12 strong.

We have a company that employs 165 people.. and last time I counted ,we had 46 nationalities, working with us.

THAT, is the dream that my father breathed into me .

THAT is Australia.

THAT is what Bonegilla means .

George Papamanuel, April 2019

L-E95A: FLEXING OUR ERAPOL MUSCLES

Era Polymers USA - All American made...and ALL in spec!

If you're reading this then WE MADE IT! Houston....we have lift off!

Our FIRST prepolymers batch was produced at the Era Polymers USA facility in Stanley USA. This is something to file into your long term memory banks... and at the appropriate time, tell your grandchildren;

“ Did I ever tell you the time, we made our FIRST prepolymer batch at Stanley “

To which your children, will say; “NO, NO, dad ,you’ve told THAT story, dozens of times”. Nice.. ..nice colour, too ! Well done... To Infinity and Beyond!

G. Papamanuel

Below: (L-R) Termaine Thompson (Chemical Plant Operator) Patrick Sekle (Chemical Plant Operator) Reynaldo Lopez (Site Manager) and Randall Hardin (Chemical Plant Operator)



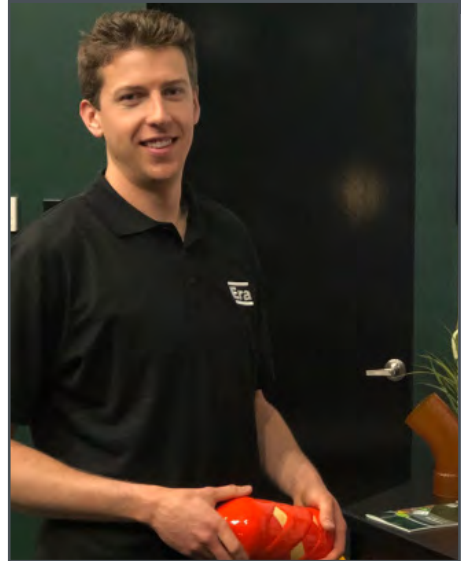
*From: Rey Lopez
Sent: Friday, 5 April 2019 9:25 PM
Indeed it was a long day, but well worth it. We are very happy to be apart of making history for you. Thank you Shannon for your support and everyone across the way there, we will continue to learn, grow and support.*

I personally want to thank my team and again Shannon this week for all their support and skills. It was teamwork that made it happen.



MILES MACARTHUR

Era Polymers USA



Miles MacArthur is our Technical Sales Representative, based in the USA. He looks after our US sales, covering California across to Texas.

He joined Era USA and is actually our first ever Era Polymers USA employee.

Miles is a gifted salesman. He likes working with customers. He is not afraid of making mistakes. He can open doors, like I haven't seen in years... he is even “closing” a few .

Mind you, his pastime is jumping off cliffs ... so anybody who can jump into thin air, has NO problem, picking up the phone, or, going to see someone, right !?

Miles, once upon a time, wanted to be a fireman. I think that he has found his true calling. On his recent trip to Australia, he attended Era Polymers' Headquarters in Sydney, for further training followed with a visit to the two Samos Polymers (Ena & Dio) manufacturing facilities in St Marys.

To Infinity and Beyond Miles!



WHAT'S AN EXI? IT'S ICING ON THE CAKE SON

For all you NON Greeks ..., the word “Exi” means **SIX**.

SO, Samos Polymers “Ena”, and “Dio”, Applied Polymers is “Tria”,

New Zealand is “Tessera”,

South Africa is “Pente”...

and **Stanley is “Exi”**



The flagpoles went in on the 5th of March 2019. The Samos Flag is on the right, the Australian flag to the left and the USA flag in the middle.

The Era Polymers USA team is already comprised of five people, with a lot more to come.

WELCOME TO THE CLUB



DEBORAH LI



We have a pretty exclusive club in our company ... our 20 year's service , club.

So, apart from yours truly, the “real boss”, Alex ,and PLEASE DON'T FORGET, Shannon.

We have Terry, Tony, Marica, Moey, Brendan (who is , of course, no longer with us), Emmanuele ... and DEBORAH LI. (I hope that I haven't forgotten anyone!)

Boy, that went fast Deborah ! Deborah hails from Shanghai, via Palmerston North , New Zealand. She does her job, very ,very well. Nothing bothers her... she does stuff that she really doesn't have to , BUT, wants to.

She is an integral part of our success. She and Tina share baby videos, at all hours of the night ..

Perfect employee.
John her husband, says,

“ Perfect wife”. Lillian, her daughter, says “Perfect mother“.

And like all good Greek /Chinese grandmothers... holding a spoon, and feeding the baby, gives her , and certainly my wife, “ALPHA waves.... perfect grandmother.

Thank you Deborah .



ERA POLYMERS BABY NEWS



CONGRATULATIONS EMILIE & ENGUERRAN!

BABY SEX: BABY BOY!

BABY NAME: LIAM

DATE: 8 January 2019

CONGRATULATIONS ARLINGGA & IRENE!

BABY SEX: BABY BOY!

BABY NAME: NOAH

DATE: 22 January 2019

H.K. MOEY



Moey and I go back a long way... probably to the early '80's (yes, we're both, that old!)

We both worked at Uniroyal (so did Andy, by the way , and Stefano, and Martin, and Matt, and, and)

Moey, and I used to hit the road in Singapore (when Singapore had some PU shops). Malaysia, Philippines, Indonesia, Vietnam and even China .

He gave me a lifelong passion for Durian, for spicy food, for taking my shoes off, BEFORE you enter a house... for all things Asian. Somewhere along life's road, we became lifelong friends.



Our paths diverged, when we started Era. But one lucky day for us , Moey, like all good Uniroyal people, was tossed aside..... which was our good fortune.

So, Moey and I, are the “oldies” in our company ... and we still have a lot of life left in us .

Happy Era Birthday Moey.



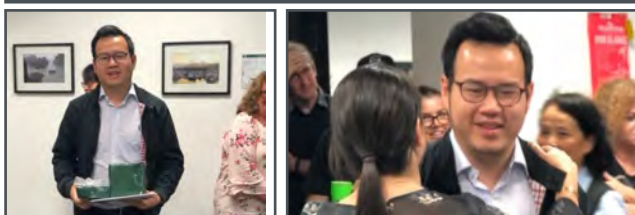
JOSIP SALOPEK - 18th Era Birthday

It's hard to believe that Josip has been here 18 years ... its even harder to believe how did we ever do without him.

He is the “go to” guy, that Terry, and Tony and Dave and Jeff, go to if they want something done FAST. Nothing is a problem, nothing is too hard.

Keep going Josip.. we need you.

FAREWELL TO NICKEL Q. SUTISNA



ELEGANCE IS IN THE DETAILS

A High Class Finish for a Luxurious Harbourside Room

The NSW Government are proud of their prominent public buildings and the NSW Museum of Contemporary Arts (MCA) is no exception. Housed in the former Maritime Services building located at Circular Quay on the edge of Sydney Harbour, the NSW government are focused on the importance of maintaining and preserving such a building.



Urethane Coatings, Purathane 2K Satin was specified to finish the Spotted Gum Australian hardwood flooring in the luxurious Harbourside Room. The **Purathane** range of products emit low VOC's (volatile organic compounds) so are both user and environmentally friendly, whilst retaining all the durable and hard wearing benefits of solvent based polyurethane, sealers and traditional polishes.

A durable product with a high class finish was required for this application, maintenance is extremely important to the MCA as they have 1000's

of visitors annually many of which are international tourists visiting the iconic Sydney Harbour. Purathane 2K Satin is a two pack system from Urethane Coatings, Purathane Water Borne Range. This two component water borne polyurethane was developed to provide timber and parquet floors with extra hardwearing and long lasting protection.

The rapid curing of the Purathane Two Pack achieves optimal hardness up to 50% faster than single pack water borne polyurethane and the higher solids content provides a thicker film which offers greater resistance to wear.

Result:

A hard wearing protective system with an attractive finish.



For more information:
www.urethane coatings.com.au
 +61 2 9666 3788

BALLAST BED STABILITY HAS A NAME: ERAPOL TRACKCOAT

The most reliable way to keep ballasts stable & reduce maintenance costs



The ballast bed is an important part of the railway track infrastructure, it is subject to heavy traffic loads and exposure from the environment. Over time the ballast bed deforms and degrades affecting the performance of the railway track and ultimately leading to increased maintenance costs. One way to help reduce these costs is to use Erapol TrackCoat a ballast bonding system. Erapol TrackCoat is a polyurethane resin system

which bonds, strengthens and stabilises the ballast bed. Erapol TrackCoat bonds the individual ballast stones preventing them moving, this reduces the effects of heavy traffic loads over an extended period limiting the wear of the ballast and reducing maintenance. Due to the selective bonding of stones at contact points the drainage capacity of the ballast will be fully maintained even during heavy rainfall.

Erapol TrackCoat:

- Reduced Maintenance Costs
- Convenient 1:1 parts by volume mix ratio
- Processed through plural spray machines
- Quick application. Tracks returned to service within 2 hours
- Solvent & VOC free

To find out more visit www.erapol.com.au or call +61 2 9666 3788

IT'S SET IN CONCRETE - MOULDING THE FUTURE

Erapol CCM75A used to create Concrete Moulds

Era Polymers Erapol CCM 75A used to create concrete moulds for the Star Mountain Plaza in Port Moresby Papua New Guinea (PNG)

Gordon Hooker based in Queensland, Australia made concrete moulds (Pattern Liners) using Era Polymers Erapol CCM75A for Stratum Unlimited PNG to manufacture pre cast concrete panels for the Star Mountain Plaza project in PNG.

The concrete moulds were an impressive 7m wide x 2.4m high, each mould weighing 400kg. Once manufactured they were air freighted to PNG to Stratum Unlimited PNG, ready for them to create the pre cast concrete panels for the Star Mountain Plaza project..



Erapol CCM75A is a medium performance cold castable polyurethane elastomer free from MOCA and flammable solvents. It produces an economical elastomer with good toughness and high elongation and chemical resistance. Erapol CCM75A has a low viscosity, a potlife of 13 minutes and can be cured at room or elevated temperatures, so is easy to process.

Applications include, concrete and flexible moulds, stamp pads, cast in place linings, sound dampening applications and casters.



For more information on:

Era Polymers Cold Castable Range please visit www.erapol.com.au

Or contact us on **+61 02 9666 3788** to talk to one of our Technical Business Managers

SHORE SURE WITH EME165 - OUR 3 COMPONENT SYSTEM

Erapol EME165 is being used extensively around the world for many applications

EME165 is a 3 component system, catalysed using **Era Polymers** proprietary catalyst blend **Eracat MF** which is Mercury Free. Despite being Mercury Free the catalyst provides excellent hardness build up and demould times.

When reacted **EME165** can give a range of hardnesses from 55 to 95 Shore A.

The material has excellent physical properties and particularly good abrasion resistance of less than 25mm³ (10N) for the 85A hardness.

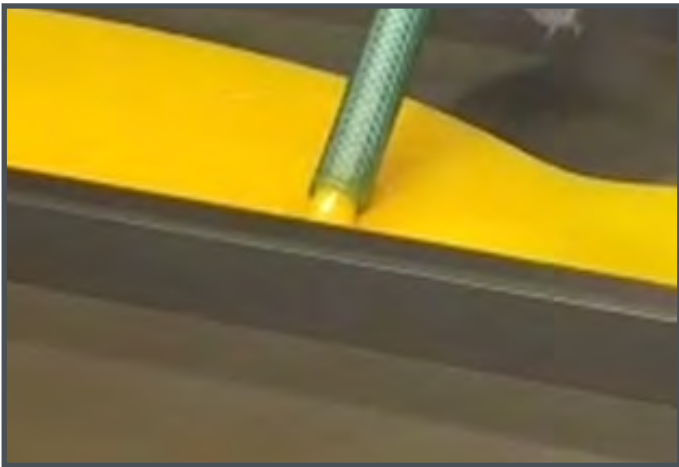
Erapol EME165 is ideal for machine processing but can also be hand cast.

Applications for the **Erapol EME Elastomers** include but are not exclusive too: Mining screens, snow plates, rolls, seals, gaskets, linings and a variety of industrial and mining applications.

Erapol EME165N grade contains only FDA approved raw materials so can be used for a multitude of Dry Food applications subject to relevant approvals gained in that region.



ERA REDUCE FREE TDI IN L GRADE RANGE OF PREPOLYMERS



Rather than conventional stripping that increases costs Era Polymers has been able to use chemical techniques to reformulate and lower the Free TDI levels of selected grades to below 1% Free TDI.

The resultant elastomer is still the same high quality but with lower risk of TDI exposure for processors and increases in potlives. It also eliminates some of the dangerous Pictograms from labels and MSDS allowing for easier transport and storage.

The following grades are available:

POLYETHER (PPG) BASED		
PRODUCT	Free TDI Content (%)	POT LIFE (mins)
L-ETL85A	0.3	10
L-ETL91A	0.5	6
L-ETL94A	0.7	5
L-ETL69A	0.9	4.5



For more information contact **Era Polymers** on
Tel: 02 9666 3788 or email erapol@erapol.com.au

POLYETHER (PTMEG) BASED

PRODUCT	Free TDI Content (%)	POT LIFE (mins)
L-ET82A	0.3	11
L-E83A	0.3	15
L-E90A	0.2	10
L-EHP90A	0.9	13
L-E93A	0.4	8
L-E95A	0.8	8
L-EHP95A	0.9	9
L-E60D	0.8	5.5
L-E65D	0.6	5
L-ETX75D	0.9	4
L-ETX80D	0.3	6

POLYESTER BASED

L-RN701A	0.8	10
L-RN71A	0.9	5
L-RN85A	0.2	8
L-RN92A	0.4	4
L-RN50D	0.9	5

POLYCAPROLACTONE BASED

L-ECP61A	0.7	19
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ASIAN INDUSTRY SECTOR - POLYURETHANE TRAINING SEMINAR

(Continued from Page 1)

Intensive and comprehensive training was held in the Era Polymers' Training Room, the Research Centre's laboratories and warehouse for machinery applications (practical demonstrations) as well as a trip to the two main manufacturing facilities in St Marys, Sydney, Samos Ena and Samos Dio.

All the hard work and concentration paid off and our guests were treated to some exciting site seeing, relaxation and dinner in and around Sydney and our magnificent Blue Mountains : Katoomba. Upon completion, all 30 participants were presented with a participation certificate to take home.



VISIT: SAMOS ENA & DIO | LABORATORY DEMONSTRATIONS



SIGHTSEEING TOURS & DINNER



LEST WE FORGET

ANZAC DAY - APRIL 25

Anzac Day goes beyond the anniversary of the landing on Gallipoli in 1915. It is the day on which we remember all Australians who served and died in war and on operational service. The spirit of Anzac, with its qualities of courage, mateship, and sacrifice, continues to have meaning and relevance for our sense of national identity.

What does ANZAC stand for?

ANZAC stands for Australian and New Zealand Army Corps. The soldiers in those forces quickly became known as Anzacs, and the pride they took in that name endures to this day.

Why is this day special to Australians?

When war broke out in 1914 Australia had been a federated nation for only 13 years, and its government was eager to establish a reputation among the nations of the world. When Britain declared war in August 1914 Australia was automatically placed on the side of the Commonwealth.

In 1915 Australian and New Zealand soldiers formed part of the expedition that set out to capture the Gallipoli peninsula in order to open the Dardanelles to the allied navies. The ultimate objective was to capture Constantinople (now Istanbul), the capital of the Ottoman Empire, an ally of Germany.

Although the Gallipoli campaign failed in its military objectives, the actions of Australian and New Zealand forces during the campaign left a powerful legacy. What became known as the "Anzac legend" became an important part of the identity of both nations, shaping the ways in which they viewed both their past and their future.



Erapol EMD750D - A New High Performance Elastomer

High Hardness, Excellent Rigidity, Extreme Toughness & Generous Working Time

sums up Era Polymers EMD750D New High Performance Elastomer

EMD750D is a 78 Shore D MDI/PTMEG Polyurethane Elastomer

It has a pot life of 11-14 minutes.

When cast & cured in 80°C moulds the demould time is typically 30 minutes meaning high productivity.

EMD750D is suitable for both machine dispensing and hand casting. The resultant elastomer is not brittle & has excellent physical properties.

Erapol EMD750D is ideal product for applications requiring, thermal resistance, hydrolysis resistance and good mechanical properties.

For more information on Erapol EMD750D

Contact Era Polymers:

Telephone: +61 (0) 2 9666 3788.

Email: erapol@erapol.com.au



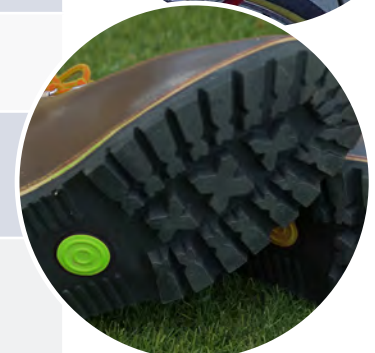
UPDATE:

FOAMS



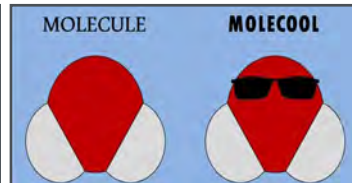
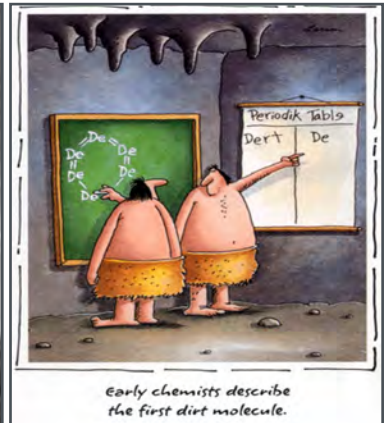
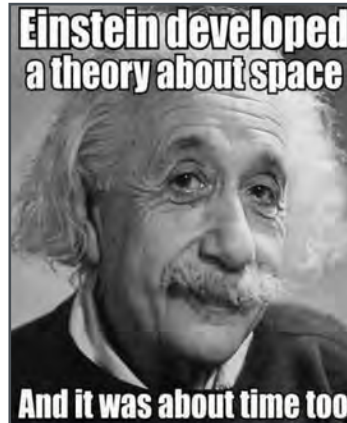
Era Polymers' Foam Systems, Designed Specifically to your Application & Processing

Industry	Applications
Appliance	Water heaters, commercial and domestic refrigerators, chillers
Construction	Insulated panels (SIPS), ducting, sprayform, ground consolidation, underpinning, roller shutters
Film and Art	Movie props, carnival floats, decorative sets, medieval armour
Footwear	Work boots, sport shoes, shoe in-soles, midsoles, out-soles
Furniture	Domestic and office seating, frames, armrests, bedding
Leisure	Coolers, surfboards, windsurfers, wakeboards, snowboards, sporting goods, toys
Marine	Buoyancy foam, pontoons, submersibles, fish boxes
Medical	Nasal masks, viscoelastic seating / bedding
Oil, Gas & Mining	Pipe insulation, pipe supports, trench breakers, pipe pillow, drilling plug foam (mud foam), soil stabilisation / ground consolidation, pipe jointing, pipe pigs.
Transport	Insulated truck / trailer panels, bollards, crash barriers, steering wheels, dashboards, seating, roof linings, rear view mirrors, underlay, sound deadening, sun visors, jounce bumpers, filters, vandal proof seating, moulded cup holders, armrests.





THE LIGHTER SIDE



WHAT'S MOVING IN MACHINERY? SAIP - LOW PRESSURE DISPENSERS

FOAM DISPENSING MACHINES

SAIP low pressure polyurethane foam dispensing machines are available in a wide range of models with outputs variable from few grams to several kilos and components ratio variation from 1:5 to 5:1.

The components' carbon-steel tanks are assembled vertically and have a capacity of 50, 100 and 280 liters each. They are equipped with visual levels control and with heat exchangers with heating elements.

Output and ratio variation could be powered either by a mechanical system with manual components flow adjustment or by an electronic system.

SAIP low pressure foam dispensing machines are equipped with mixing and pouring heads, complete with dynamic mixer, mixing chamber, recycling and pouring pressure valves and mixing head seals forced lubrication. Automatic and timed controlled mixing head chamber cleaning system.

The machines are powered by a PLC control and a Saip Touch Screen operator process control to set and display the working parameters.

THE ADVANTAGES

- user friendly
- high quality construction materials
- easy maintenance
- precise metering, accuracy and repeatability
- calibration directly on the mixing head
- high mixing precision and uniformity
- accurate components temperature conditioning
- automatic mixer cleaning

OPTIONALS

- Tanks automatic loading
- Chiller unit
- Air circuit dryer
- Air nucleation unit
- Additional programs
- Program number display
- Tank stirrers
- Tank and heat exchanger insulation
- Mixer water cleaning system
- Filters to the metering pumps
- Silica gel filters
- Colours unit



MIXING HEAD



DYNAMIC MIXER



COMPONENTS METERING GROUP

Sydney • Adelaide • Brisbane • Melbourne • New Zealand • Singapore • Malaysia • United Kingdom • USA • South Africa

THE Herald
ERA POLYMERS NEWS BULLETIN
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Strategic Alliances

