



NEWS

1st Quarter 2004

3D Surface Treating Technology

New Dyne-A-Mite HP™ surface treater delivers 200% more surface activation

The new Dyne-A-Mite HP™ is the most effective 3D air plasma surface treater ever offered by Enercon. It consistently delivers up to 200% more surface activation than comparable treatment systems.

Its unique design generates an aggressive blown arc discharge that is ideal for high line speeds and demanding applications. Its highly effective air plasma treatment eliminates the need for costly chemical priming and etching processes.



Lids and caps receive treatment to promote adhesion prior to printing and labeling.

This makes the Dyne-A-Mite HP a powerful and economical solution for improving surface adhesion on all types of surfaces for printing, painting, coating, bonding, and labeling applications.

It is highly effective at treating a multitude of thermoformed and thermoset plastics. Please refer to the chart at the right for an overview of materials it treats.

Dyne-A-Mite HP is ideal for treating extruded, pultruded, molded, and formed materials in the medical, packaging, electronic, industrial, optical, and printing industries.

Its treatment facilitates high quality printing on plastic parts, allows clear readable markings on polymer surfaces and improves the adhesion of labels and coatings.

Dyne-A-Mite HP is remarkably easy to operate and is virtually maintenance free. Easy to use, the operator guided front panel controls feature simple Start/Stop treatment buttons. Terminals are available for remote operation and contacts are provided for a Loss of Treatment Indication device.

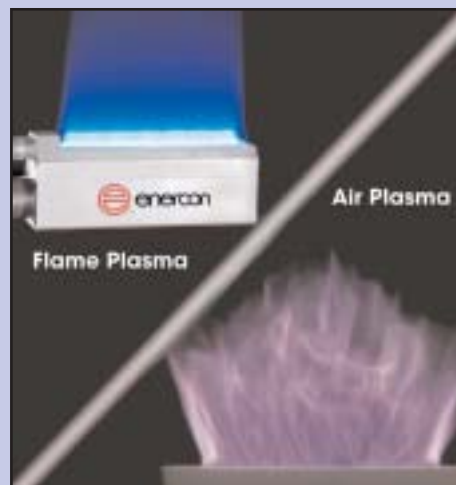
Safe and reliable operation is ensured with external interlock capabilities and a heavy duty blower.



The Dyne-A-Mite HP breaks new ground in effectively surface treating thermoformed and thermoset plastics.

Effectively Treats			
J	ABS	J	PE
J	ASA	J	PET
J	EPD	J	PMMA
J	EVA	J	PP
J	HDPE	J	PS
J	LDPE	J	PU
J	PBT	J	PVC
J	PC	J	TPU

Free chart compares technologies



Both flame plasma and air plasma have attributes which make them effective for certain 3D applications. Tap into our knowledge base to find out how they compare.

Call us at 262-250-6070 or send us an e-mail at enews@enerconind.com for a free chart that summarizes the advantages of each of these technologies.

What's best for your application? Send us product samples and our experts will test them in our lab and provide you with a detailed report of their findings.

e Improved Technology

Check out flame It's cooler than you think



The key to reliable flame treatment lies in your ability to control the flame. Enercon has coupled its new PowerFlame™ burners with advanced control systems that make flame treatment effective, repeatable, and safe.

For more information call us at (262) 255-6070 or send us an e-mail at enews@enerconind.com.

2004 Industry Events

Antec/SPE

Booth: Table Top Stand

May 16-20

Chicago, IL United States

Enercon's Rory Wolf presenting tech paper on treatment technologies

Plastics USA

Booth #400

September 28-30

Chicago, IL United States

Pack Expo International 2004

Booth #1254

November

Chicago, IL United States

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e Technically Speaking

Why do I need surface treatment?

Printing- Surface treating parts prior to printing enhances ink adhesion. It makes printing easier, and for others it makes printing possible.



Medical devices such as syringes are treated to allow for clear markings.

Painting- Injection molded or thermoformed parts are often treated prior to painting. Surface treatment allows the paint to adhere and also increases the life and durability of the paint.

Coating- Products are coated to protect their surfaces from harsh environments and also as a method of decoration. Doors, frames, and extrusions/profiles are often coated. The medical industry uses surface treating to improve adhesion of antimicrobial/antibiotic coatings.

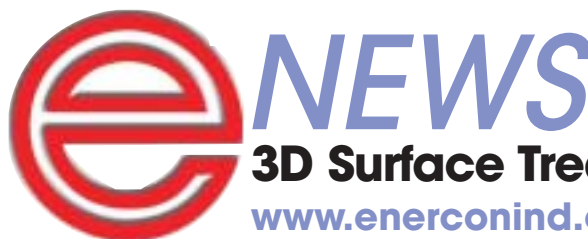
Bonding- Bonding is primarily used to increase the strength of an adhesive. The medical and automotive industries rely on surface treating to remove contaminants such as dust, grease, oils, or mold to improve bonding. Typical cleaning solvents such as methyl ethyl ketone (MEK), trichloroethylene, toluene, or acetone may be used for this purpose, but cleaning agents that leave a film residue upon evaporation will retard bonding.

Labeling- Surface treating caps, bottles and lids ensures that labels will not peel off before complete destruction of the label occurs. Air, flame and chemical plasma treatment of materials like HMWHDPE can effectively improve adhesion of labels.

Start spreading the E-news

Welcome to the first edition of Enercon's E-NEWS 3D Surface Treating Technology Newsletter. In each issue we'll provide you with the latest technology updates and provide insight as to how surface treating can improve your productivity.

If you know someone who would benefit from receiving the newsletter please contact us at enews@enerconind.com or call us at 262-255-6070.



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