



**SMT
DETERGENT
CORP.**

Makers of 440-R[®] SMT Detergent

Productronica 2005

**Global Technology Award
*Best Cleaning Material***

Smart Sonic's 440-R SMT Detergent

Smart Sonic's 440-R SMT Detergent was winner of this year's Global Technology Award for Best Cleaning Material presented at the 2005 Productronica Show in Munich Germany. The Global Technology Award celebrates the very best innovations in the printed circuit assembly and packaging industries.

Stencil cleaning has been identified as the most hazardous process associated with SMT assembly; heavy metal exposure, noxious / flammable chemistries and vapors all pose hazards to the operator. Smart Sonic's 440-R SMT Detergent eliminates these hazards with a mildly alkaline non-hazardous and environmentally safe aqueous detergent.

Smart Sonic formulated 440-R SMT Detergent specifically to clean all types of solder paste from fine-pitch stencils while eliminating the health, safety and environmental hazards of VOC solvents such as alcohol and terpenes and hot corrosive saponifier chemistries commonly used in stencil-cleaning applications.

440-R SMT Detergent is the only cleaning chemistry verified environmentally safe, user safe and effective by the U.S. Environmental Protection Agency yet it is guaranteed to clean any type of solder paste from any fine-pitch stencil which is important if the assembler needs to use multiple solder pastes or plans to change solder pastes in the future as 440-R SMT Detergent will support the change and not require a change of chemistry, equipment or waste management protocol.

440-R SMT Detergent effectively cleans all types of solder paste without heat. Stencils are heat-sensitive and most stencil manufacturers recommend their stencils not be exposed to temperatures higher than 43° C (110° F) as the glue that bonds the screen to the frame and metal-etched foil is heat-cured. Hot wash water or hot drying air can breakdown the glue causing detachment, distortion or misregistration of the etched image due to expansion and contraction. 440-R SMT Detergent eliminates these concerns and conserves energy.

Because 440-R SMT Detergent contains no hazardous ingredients or VOCs, the wastewater qualifies for routine liquid evaporation in standard evaporation equipment. The non-hazardous liquid is evaporated to atmosphere reducing everything back to the original solid solder paste for recycling. When using an evaporator, there's absolutely no liquid hazardous waste for disposal.

Most applications require less than 10 litres per month at a cost of only 4.50 Euros per litre! Smart Sonic's 440-R SMT Detergent is distributed worldwide by SMT Detergent Corp. from facilities in California and the U.K.

Additional information about 440-R SMT detergent may be found at:

www.SMTdetergent.com

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