

# EtchMaster® Air-Particle Surface Preparation System

Uses SmarTip® Intraoral Delivery Technology Licensed from Groman Inc. ♦ Pats. US 7,607,972 & WO 07 795 892.4 plus additional Pats. issued & pending US & Int'l ♦ EtchMaster®, SmarTip®, and MyEtcher™ are trademarks of Groman Inc. ♦ GromanDental.com © 2017



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**GENERAL OPERATION** - The EtchMaster® SmarTip® is a disposable single-use self-contained microetching device that is powered by house air available at every dental chair. Mount the adapter to chairside as required by the adapter connection type. Refer to User Instructions for SmarTip attachment and removal directions.



Please Check [www.relianceorthodontics.com](http://www.relianceorthodontics.com) web site for SDS.

The SmarTip® may be utilized in a continuous sweep over the target area or in a pulsating operation. Higher operating pressures provide faster microetching rates. For safety, efficiency, and most comfortable operation 40-45 psi is recommended and should NOT be exceeded. During operation nozzle is held about 1mm-2mm from the target surface; holding the instrument further away from the surface increases the size of the affected surface while reducing the powder impact.

**INDICATIONS FOR USE** – With Hard Abrasive Tips: For roughening and/or microetching of tooth surfaces (enamel & dentin), general purpose bonding and orthodontic bonding procedures, including orthodontic brackets, ceramic and porcelain repair, crown & composite restorations, preventive sealants, CEREC, Zirconia, eMax, Lava, Veneers. With Mild and Soft Powder Tips: polishing, cleaning, polishing, desensitization, prophylaxis, preventive sealants, superficial & ingrained stain removal, pits & fissure brushing, subgingival biofilm removal from implant surfaces.



**SAFETY** - Read the instructions carefully before using this device. The powder SDS is available on the Reliance Orthodontic Products, Inc web site. The manufacturer, distributor, or retailer of this product can exercise no control over the use of the EtchMaster®.

- This is a disposable device. Dispose after single patient use regardless of the remaining quantity of powder.
- DO NOT attempt to sterilize, refill or reuse the disposable tip.
- Mounting and pressurizing the device more than once will degrade device operation.
- Federal Law restricts this device to sale by or on the order of a licensed dentist.
- Rubber dam must be used to protect adjacent teeth and soft tissue. Matrix band should be used to protect adjacent teeth during interproximal preparation.
- Due to the alumina powder, it is necessary to protect the eyes of anyone present in the treatment room during the procedure, namely the patient, assistant and dentist. For patient protection goggles and/or face (eyes and nose) covering with powder resistant material is recommended. All treatment room personnel should already be wearing eye protection. We recommend dental personnel wear face shields over safety glasses and masks for extra protection.
- Do not use oxygen or other flammable or toxic gases as propellant.
- Excessive microetching will erode most surfaces. Practice and experiment on typodonts, pennies, stainless steel, extracted teeth, or glass slides before actual use. These surfaces will simulate both precious and non-precious alloys and porcelain.

**CAUTION: Do not point the EtchMaster® SmarTip® nozzle towards your face or eyes. Always wear protective safety glasses when using this device. NEVER refill and/or reuse the device once it has run out of material. Safely dispose after use.**

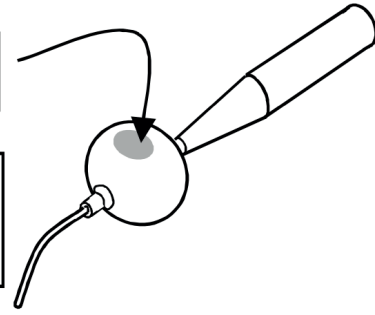
**DISINFECTION:** Groman Dental recommends using a disinfectant on the adapter body between patients or using a single use disposable barrier. To disinfect the EtchMaster® adapter, generously spray disinfectant on a clean towel and wipe all surfaces. Discard used towel. Dry with a clean cloth. Never spray disinfectant solution directly on the adapter. When using a plastic sleeve over the EtchMaster® adapter, pierce the sleeve to the bulb portion of the SmarTip to limit direct patient contact to the adapter. Although the EtchMaster® adapters are sterilizable to 135C degrees autoclave, this is not necessary for this item. Do not immerse handpieces in ultrasonic bath.



**IMPORTANT - REVIEW SAFETY PRECAUTIONS PRIOR TO USE.** Manufacturer is not responsible for damages due to misuse of the product.

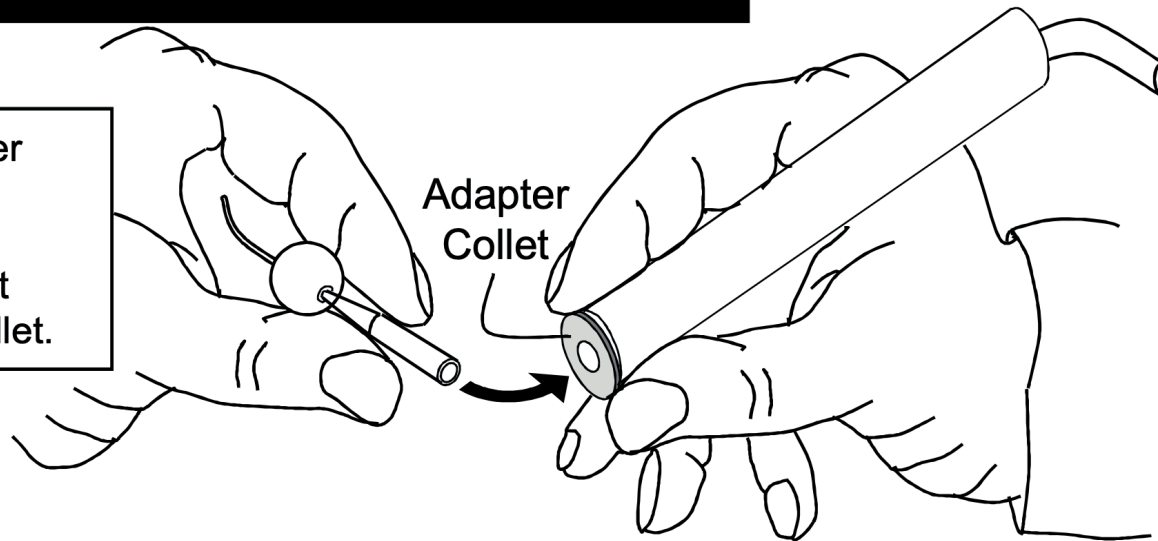
## STEP 1 - Check SmarTip color code mark to identify powder type

BLACK- 50 micron aluminum oxide Hard Abrasive  
(Check manufacturer's color code reference chart for other powder types)



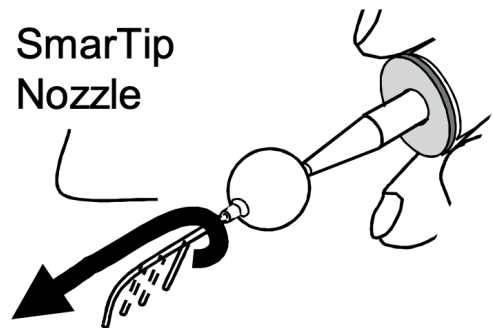
## STEP 2 - Hold tube end of the SmarTip with one hand and the handheld adapter with the other and firmly insert tube end into the adapter collet.

**IMPORTANT** - After insertion pull on SmarTip to ensure secure engagement with the adapter collet.



## STEP 3 - Twist and Pull SmarTip nozzle forward until stop to unseal the abrasive powder contained within the SmarTip.

SmarTip is now operational

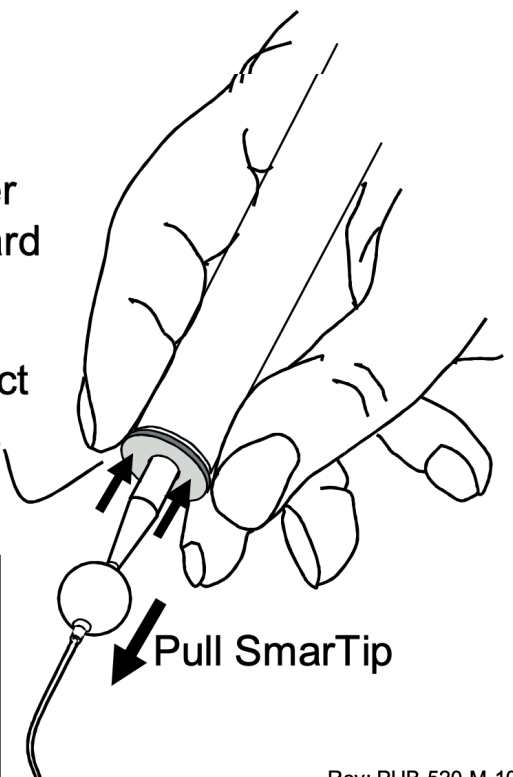


## STEP 4 - Direct SmarTip nozzle at target surface and apply air flow.

Discard EtchMaster® Post-Op or once powder is depleted.

Point Adapter Downward

Retract Collet



## STEP 5a - Point adapter downward to remove SmarTip.

## STEP 5b - Remove SmarTip from adapter by retracting collet while twisting and pulling SmarTip away from the collet.