

Keep Your **Smile**

Vibrant for a **Lifetime** with...



**MI Paste™ &
MI Paste Plus™**

A Collection of
Submitted Clinical White
Spot Success Cases*

GC

Disclaimer



* We have seen very good results from many clinicians incorporating microabrasion techniques in their MI Paste practice. If you are a clinician that utilizes these techniques, please review the materials prior to use. Concentration of material and time of application should be considered and adjusted accordingly.

The following clinical cases have been submitted to GC America Inc. from various dental professionals; they are not affiliated with GC America Inc. We appreciate sharing Key Opinion Leaders' clinical success cases with MI Paste, however, we at GC America Inc. do not make any official claim to their techniques. In regards to the length of time for etching, we suggest you follow the manufacturer's recommendation and be conservative with the etching procedure.



Suggested White Spot Reversal Protocol*

- Suggest to take photos of white spot lesions prior to the start and at the conclusion of treatment
- It is important not to over-etch the tooth surface; careful attention needs to be applied to the etching material, the concentration and application time. Some clinicians prefer to pumice first, then etch
- Apply 35% - 37% phosphoric acid gel to the white spot lesions, (10-15 seconds to 30 seconds, no longer than one minute); Be conservative when etching, you can always re-etch a second time if necessary; rinse
- Apply the etch material on the white spot lesion being treated, not the entire tooth surface
- For microabrasion, gently pumice for 10-15 seconds to 30 seconds, non-fluoridated, non-glycerin pumice – suggest "Flour of Pumice"; rinse
- Dry the tooth and review the effect; sometimes you may have to re-etch/pumice a second time; the tooth will appear frosty after the etch/pumice application
- It is suggested for in-office to use a prophyl cup to apply MI Paste; use your finger or a cotton tip to apply MI Paste for home application
- Apply layer of MI Paste on the etched tooth surfaces; leave on the tooth surface a minimum five minutes; you cannot over use MI Paste; you can leave MI Paste on the tooth surface longer to maximize the uptake of calcium and phosphate; this applies to both in-office and at-home applications
- Advise the patient not to eat or drink for 30 minutes, maximizing the uptake of the calcium and phosphate into the dental tubules
- Instruct patient to apply MI Paste two times daily for a minimum of five minutes, remember you cannot over use MI Paste; custom tray is optional
- Note: it is suggested to refrain from ingesting staining products during the white spot reversal procedure since, after etching, the dental tubules are wide open and can easily pick up stains, therefore, no wine, tea, coffee, cola drinks, grape juice, tomato sauces, smoking, etc.
- Have patient return for evaluation in 7-10 days. Repeat the above procedures if necessary
- Refer to pages six and seven of the White Spot Booklet from GC America (SKU 600707) and the Clinical White Spot Success Cases posted on the GC America Web site at: www.gcamerica.com

Dr. Scott Munro

Racine, WI





- 09/18/07 1 Minute Etch, 5 Minute MI Paste Treatment
- 09/24/07 1 Minute Etch, 5 Minute MI Paste Treatment
- 10/04/07 1 Minute Etch, 5 Minute MI Paste Treatment
- 10/15/07 1 Minute Etch, 5 Minute MI Paste Treatment
- Bleach 15% Opalescence[†]
- 10/18/07 1 Minute Etch, 5 Minute MI Paste Treatment
- Bleach 15% Opalescence[†]
- 11/01/07 1 Minute Etch, 5 Minute MI Paste Treatment
- 11/29/07 1 Minute Etch, 5 Minute MI Paste Treatment

No Restorative Work Was Done On Patient

MI Paste was used and some light microabrasion was done on cusp tips. Tooth #9 was not bleached internally, but was whitened with ZOOM[®] In-Office. Patient wore trays for 5 minutes, twice daily.

Dr. Ivan A. Serdar

San Francisco, CA



- 12/02/08** Pumice, rinse, one minute etch with 37% phosphoric acid, rinse, blot, five minutes MI Paste.
- 01/07/09** Pumice, rinse, one minute etch with 37% phosphoric acid, rinse, blot, five minutes MI Paste.
- 01/26/09** Pumice, rinse, one minute etch with 37% phosphoric acid, rinse, blot, five minutes MI Paste.
- 02/25/09** Pumice, rinse, one minute etch with 37% phosphoric acid, rinse, blot, five minutes MI Paste.
- 04/01/09** Pumice, rinse, one minute etch with 37% phosphoric acid, rinse, blot, five minutes MI Paste.
- 04/29/09** Pumice, rinse, one minute etch with 37% phosphoric acid, rinse, blot, five minutes MI Paste.

Patient used trays at-home for the duration of this treatment and placed MI Paste in her trays for five minutes, twice a day. Patient also used regular strength Whitestrips[®] at home for three weeks.



Dr. Ronald Rubin & Dr. Cindy Pong

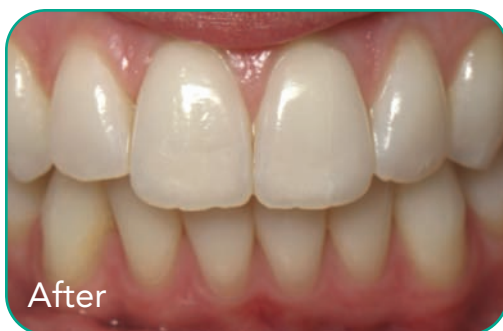
Cincinnati, OH
Hypoplastic Enamel



- Two minute etch with 37% phosphoric acid (blue gel)
- Heavy pumice
- Dispense tube of MI Paste or MI Paste Plus. Patient apply/rub MI Paste with finger to affected areas for 10 seconds, daily at bedtime; re-evaluate in two weeks
- Repeat sequence as needed for desired result
- Treatment was over the course of one month: 9/3/2008-9/29/2008

Dr. Stephanie Benton

Grand Rapids, MI



- Dr. Benton's teeth were etched twice for 20 second intervals
- No pumice was used
- She placed MI Paste immediately on her teeth following etching and wore trays at night time only
- She had immediate results over the first week
- She continued to wear the trays for two and a half weeks at night time
- "Very happy with the results!"



Dr. Will Summerville

Charlotte, NC

Case One



- First appointment: Etched two minutes with 38% phosphoric etch, applied MI Paste in office, patient was instructed to use MI Paste in custom whitening trays for 30 minutes a day at home
- Second appointment, two weeks later: Etched again for two minutes, applied MI Paste in-office, results above and below were without any whitening products
- Dr. Summerville does whiten with trays and recontour teeth as needed
- Dr. Summerville did recontour incisal tips below

Case Two



Dr. Dan Jenkins

Chino, CA

Case One



- Completed three in-office MI Paste treatments
- Applied MI Paste each night for weeks between treatments

Case Two



- Completed three in-office MI Paste treatments
- Applied MI Paste each night for four weeks between treatments



Case Three



- Completed two in-office MI Paste treatments
- Applied MI Paste each night for four weeks between treatments

Easy at-home application!

MI Paste Plus is not recommended for children age 6 and under.



Squeeze a "pea-sized" amount onto finger.



Apply to teeth using the tongue to spread over entire area.

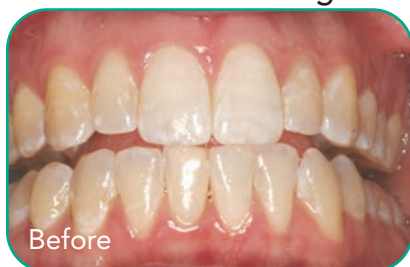


Leave for at least three minutes. Expectorate, but do not rinse. Leave the excess to slowly dissipate.

Dr. Van Osdel

Los Angeles, CA

Before Bleaching



After Bleaching



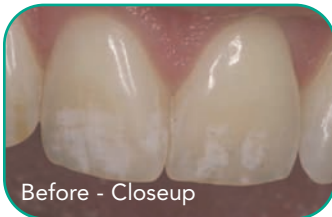
Two Weeks with MI Paste





Dr. Brett Kessler

Denver, CO



- Protocol: Etched tooth #8 and #9 for three minutes; gave MI Paste with trays to patient
- Patient used MI Paste for 15 minutes before bed; after three days, the spots were gone
- The after-photos are two weeks after the one-time etching and daily use
- The patient used approximately 1/2 of the tube of MI Paste to achieve these results

Lory Laughter, RDH

Napa, CA



Immediate results after in-office etch and MI Paste Plus. The white spots treated were the incisal edges of #7 and #8. The patient was thrilled with this result.

The Science Behind MI Paste & MI Paste Plus

A complex of Casein Phosphopeptides (CPP) and Amorphous Calcium Phosphate (ACP), RECALDENT™ (CPP-ACP) delivers supercharged calcium and phosphate ions to the enamel to form calcium phosphate crystals.

With over 100 clinical studies since the 1980's, RECALDENT™ (CPP-ACP) technology has been proven to bind readily to pellicle, plaque, soft tissue and even hydroxyapatite when applied within the oral cavity. This helps maintain a state of supersaturation of calcium and phosphate at the tooth surface, which depresses demineralization and enhances remineralization.

Further research has proven the effectiveness of RECALDENT™ (CPP-ACP) in preventing and reversing early caries lesions often seen as white spots.



Dr. Cameron Auger

Aurora, CO



- Dr. Auger completed two treatments in-office with MI Paste Plus
- Polished with prophy angle, etched for about 15 seconds and applied MI Paste Plus
- Patient followed up at-home with MI Paste Plus for two weeks
- After two treatments, four weeks, whitened with Zoom[†], final results

Dr. Sam Simos

Bolingbrook, IL



An 18-year-old post orthodontic patient presents herself to the dental office for an evaluation. She is concerned about her demineralized front teeth. The enamel was decalcified, soft and scoopable with an excavator, and flaking adjacent to the white and yellow spots. Treatment options included veneers or minimally invasive dentistry following a regimen of MI Paste Plus from GC America. The goals of the MI Paste Plus treatment discussed with the patient, prior to initiation, were as follows:

- Arrest the development of decay
- Convert demineralized enamel to mineralized enamel with the use of MI Paste Plus
- Conserve healthy tooth structure
- Brighten smile
- Restore tooth structure through conservative dentistry to create a beautiful, natural-looking smile that will last for years to come



Once treatment started, compliance by the patient was excellent. At the end of four weeks, the decay was hard to a dental explorer and could not be scooped out with a spoon excavator. Existing decay was removed and the teeth were restored with composite. The enamel was no longer flaking and the majority of the decalcified enamel lost its yellow and white appearance.

Whitening was done with a take-home gel after restorations were placed. The patient's goals were met. The teeth are overall healthier and stronger with a natural, bright smile gained through a conservative approach.

Treatment plan consists of two components: at-home protocol and in-office protocol.

In-office appointments were established once a week for four weeks. At these appointments, a two-minute phosphoric acid conditioning (Ultradent's Ultra-Etch 35% phosphoric acid) was placed with a syringe and tip within a half mm or 1 mm of the gingiva, depending on the location of the demineralization. The gingiva was not protected due to the thick etch that required only a two-minute placement, but a retractor was used to keep the lips out of the way. Afterwards, an application of MI Paste Plus to the conditioned area was completed. Whitening trays without reservoirs were made for the patient for use at home.

At-home instructions for the patient consisted of excellent oral home care, application of the MI Paste Plus two to three times each day, by hand per manufacturer's instructions, and application of MI Paste Plus to teeth prior to bed followed by insertion of whitening trays so the paste can remain in the effected areas longer.



Treatment of Severe Fluorosis by Microabrasion Followed by MI Paste



Intense opacity and areas of surface loss. Dietary stains tend to be taken up after post-eruptive surface post changes.



After three treatment cycles and nightly use of MI Paste, there has been a dramatic improvement. The surface polishing has smoothed the irregular surface and the RECALDENT™ (CPP-ACP) has regenerated the subsurface enamel for a normal appearance.

Mount, G.J., Hume, W.R. (2005). *Preservation and Restoration of Tooth Structure* (2nd edition). Queensland, Australia: Knowledge Books and Software.



White Spot Reversal Protocol



Demineralized area



Acid etch 10-15 seconds to maximum of one minute, rinse and dry



Pumice (non-fluorinated, non-glycerol),
rinse and dry



Isolate and polish with MI Paste,
leave undisturbed for five minutes

CDT Insurance Code:

D9970 Enamel Microabrasion

The removal of discolored surface enamel defects resulting from altered mineralization or decalcification of the superficial enamel layer. Submit per treatment visit.

White Spot Fee Schedule Example

Option 1: Number of teeth X \$10 X number of Sessions

Example: 10 teeth X \$10 = \$100 X 4 sessions = \$400 total
(office chooses fee value per tooth)

Option 2: One fee for initial visit (\$150-\$250 includes treatment, custom tray and tube of MI Paste/MI Paste Plus). Each visit there after charge \$75 - \$175

Option 3: Charge one fee, example \$350, for the complete treatment up to 4-5 visits. This may or may not include the cost of the MI Paste for the initial treatment

For Maintenance: Patient may be charged for the MI Paste

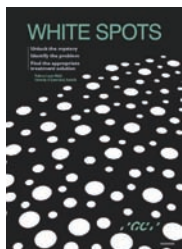
Range for MI Paste/MI Paste Plus: \$25-\$35 per tube
(Retail: \$148.50 per case – 10 tubes = \$14.85 per tube)

Length of appointments: Depends on the number of teeth

4 teeth – approximately 20 minutes

8 teeth – approximately 30 minutes

12 teeth – approximately 40 minutes



WHITESPOTS
SKU# 600807



ANTHOLOGY
SKU# 600707

Visit GC America's Web Site:

www.gcamerica.com

For more info on MI Paste & MI Paste Plus:

www.mi-paste.com

For questions about MI Paste & MI Paste Plus:

askdrchiann@mi-paste.com

Visit the MI Paste Profit Model:

www.gcamerica.com/profit

Customer Service:

800.323.7063



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