

# NuSmile® NeoMTA® Products QUICK START GUIDE

## Mixing and Placement for Pulpotomy - Two part system, Powder and Gel

### 1 level scoop of powder

Small scoop - 1 anterior tooth  
Large scoop - 1 posterior tooth



### Dispense drop of gel



### Medium flex spatula

pull half of the drop into the powder

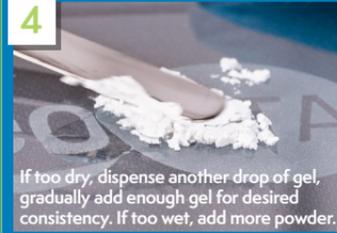


Always mix the gel into the powder, not the powder into the gel.

### Integrate thoroughly

gradually add more gel for desired consistency

#### IMPORTANT STEP



If too dry, dispense another drop of gel, gradually add enough gel for desired consistency. If too wet, add more powder.

### Optimum mixture

putty (similar to ZOE)



If not using immediately, cover with dappen dish or damp cotton gauze to delay setting.

### Gently place NeoMTA

over pulp stumps with suitable instrument



### Spread NeoMTA

to completely cover pulp chamber floor to >1.5 mm thickness



Use slightly moist cotton pellet, burnisher or other suitable instrument.

### Complete the restoration immediately



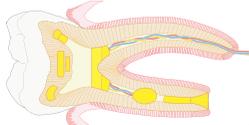
NeoMTA is immediately washout resistant when placed. You can restore directly over NeoMTA with any suitable material (you DON'T need to wait for the NeoMTA to set).

Alternatively, you may use BioCem, glass ionomer, composite, RMGI, ZOE or other suitable material to secure the NeoMTA prior to final tooth restoration.

SPANISH	PORTUGUESE	FRENCH	GERMAN	ITALIAN	DUTCH
1. 1 cucharada de polvo al ras. Cuchara pequeña: 1 diente anterior, cuchara grande: 1 diente posterior.	1. 1 colher de nível de pó. Colher pequena - 1 dente anterior, Colher grande - 1 dente posterior.	1. 1 mesure de poudre. Petite cuillère - 1 dent antérieure. Grande cuillère - 1 dent postérieure.	1. 1 Messlöffel Pulver, Kleiner Löffel - 1 Frontzahn, Großer Löffel - 1 Seitenzahn.	1. 1 misurino di polvere. Misurino piccolo - 1 dente anteriore. Misurino grande - 1 dente posteriore.	1. 1 afgestreken schep poeder. Kleine schep - 1 voorste tand. Grote schep - 1 achterste tand.
2. Vierta 1 gota de gel.	2. Aplique gota de gel.	2. Dispenser une goutte de gel.	2. Geben Sie einen Tropfen Gel ab.	2. Erogame una goccia di gel.	2. Voeg een druppel gel toe.
3. Usando una espátula semiflexible, agregue la mitad de la gota al polvo.	3. Espátula flexível média. Puxe metade da gota para dentro do pó.	3. Spatule flexible moyenne. Mettez la moitié de la goutte dans la poudre.	3. Spatel mit mittlerem Flex. Ziehen Sie die Hälfte des Tropfens in das Pulver.	3. Spatola flessibile media. Mettere metà della goccia nella polvere.	3. Middelgrote flexibele spatel. Trek de helft van de druppel in het poeder.
4. Mezcle por completo agregandomás gel de a poco hasta lograr la consistencia deseada. Paso importante. Si la mezcla está demasiado seca, vierta otra gota de gel y vaya agregándola de forma gradual hasta lograr la consistencia deseada. Si la mezcla está demasiado húmeda, agregue más polvo.	4. Integrar completamente gradualmente adicionando mais gel para obter a consistência desejada. Importante Passo: se estiver muito seco, aplique outra gota de gel, adicione gradualmente gel suficiente para obter a consistência desejada. Se ficar muito húmido, adicione mais pó.	4. Incorporez minutieusement, graduellement en ajoutant plus de gel pour obtenir la consistance désirée. Etape importante si c'est trop sec, dispensez une autre goutte de gel, ajoutez graduellement suffisamment de gel pour obtenir la consistance désirée. Si c'est trop humide, ajoutez plus de poudre.	4. Für die gewünschte Konsistenz arbeiten Sie gründlich ein und fügen Sie allmählich mehr Gel hinzu. Wichtiger Schritt, wenn es zu trocken ist, geben Sie einen weiteren Tropfen Gel ab und fügen Sie allmählich genug Gel für die gewünschte Konsistenz hinzu. Wenn es zu nass ist, fügen Sie mehr Pulver hinzu.	4. Mescolare gradualmente aggiungendo altro gel per raggiungere la consistenza desiderata. Se il composto risulta troppo asciutto, è fondamentale erogare un'altra goccia di gel e aggiungere gradualmente il gel necessario per raggiungere la consistenza desiderata. Se invece risulta troppo liquido, aggiungere altra polvere.	4. Meng grondig en voeg geleidelijk meer gel toe voor de gewenste consistentie. Belangrijke stap. Indien te droog, voeg nog een druppel gel toe. Voeg geleidelijk genoeg gel toe voor de gewenste consistentie. Indien te nat, voeg dan meer poeder toe.
5. El punto óptimo de la masilla resultante de la mezcla es similar al del óxido de zinc y eugenol (ZOE).	5. Máscara de mistura ideal semelhante ao ZOE.	5. Mastic de mélange optimal similaire au ZOE.	5. Optimaler Zinkoxidkitt ähnlich wie Minkoxid-Eugenol (ZOE).	5. Lo stucco miscelato ottimale è simile allo ZOE.	5. Optimaal plamuurmengsel vergelijkbaar met ZOE.
6. Coloque con cuidado el NeoMTA sobre los muñones pulpares con un instrumento adecuado.	6. Coloque suavemente o NeoMTA sobre cotos de polpa com um instrumento adequado.	6. Placer délicatement NeoMTA sur les souches de pulpe avec un instrument approprié.	6. Legen Sie NeoMTA vorsichtig mit einem geeigneten Instrument über die Zahnpulpastümpfe.	6. Posizionare delicatamente il NeoMTA sulle radici dentali con uno strumento adatto.	6. Plaats NeoMTA voorzichtig over pulpstompen met een geschikt instrument.
7. Distribuya el NeoMTA hastacubrir por completo el piso de la cámara pulpar hasta un espesor de > 1,5 mm. (Utilice una bolita de algodón) levemente humedecida; un bruñidor o algún otro elemento adecuado.	7. Espalhe o NeoMTA para cobrir completamente o piso da câmara de polpa até > 1,5 mm de espessura. (Use pellet de algodão ligeiramente húmido, queimador ou outro instrumento adequado).	7. Étalez NeoMTA pour couvrir complètement le plancher de la chambre pulpaire à une épaisseur > 1,5 mm. (Utiliser des granules de coton légèrement humides, du brunissoir ou d'autres instruments appropriés)	7. Verteilen Sie NeoMTA, um den Zellstoffkammerboden vollständig mit einer Dichte von > 1,5 mm zu bedecken. (Verwenden Sie ein leicht feuchtes Wattepellet, einen Polierer oder ein anderes geeignetes Instrument)	7. Distribuire il NeoMTA in modo da coprire completamente il pavimento della camera pulpare con uno spessore di > 1,5 mm (usare un pellet di cotone leggermente inumidito, un brunitoio o un altro strumento adatto).	7. Smeer NeoMTA uit om de pulpkameruimte volledig te bedekken tot een > 1,5 mm dikte. (Gebruik een licht bevochtigde wattenprop, polijster of ander geschikt instrument.)
8. Termine de inmediato la restauración. (Si no piensa usarla en ese momento, cubra la cámara con un vaso Dappen o una gaza de algodón humedecida para demorar el fraguado)	8. Completar a restauração imediatamente. (Se não utilizar imediatamente, cobrir com um copo Dappen ou gaze de algodão húmida para retardar a secagem)	8. Terminer la restauration immédiatement. (Si vous ne l'utilisez pas immédiatement, couvrir d'un plat Dappen ou d'une compresse de coton humide pour retarder le séchage)	8. Schließen Sie die Restauration sofort ab. (Wenn Sie es nicht sofort verwenden, bedecken Sie es mit einem Dappenglas oder einer feuchten Baumwollgaze, um das Erstarren zu verzögern)	8. Completare immediatamente la ricostruzione (se non lo si utilizza immediatamente e si desidera ritardare l'applicazione, coprirlo con un dappen o una garza di cotone inumidita).	8. Voltooi de restauratie onmiddellijk (Indien niet onmiddellijk gebruikt, bedek met een schaalijie of vochtig katoenen gaasje om de verharding te vertragen.)
9. No bien colocado, el NeoMTA se vuelve resistente al lavado. Puede hacer la restauración directamente sobre el NeoMTA usando cualquier material que sea apropiado. (No es necesario esperar a que el NeoMTA fragüe. Además, puede usar BioCem, ionómero de vidrio, resinas compuestas, ionómeros de vidrio modificados con resinas (RMGI), ZOE o cualquier otro material adecuado para fijar el NeoMTA antes de la restauración dental definitiva.	9. Não é bem colocado, o NeoMTA se torna resistente à lavagem quando colocado. Você pode restaurar diretamente sobre o NeoMTA com qualquer material adequado (Você NÃO precisa esperar ao NeoMTA se ajustar). Alternativamente, você pode usar BioCem, ionômero de vidro, composto, RMGI, ZOE ou outro material adequado a fim de fixar o NeoMTA antes da restauração final do dente.	9. NeoMTA est immédiatement résistant au lavage lorsqu'il est placé. Vous pouvez restaurer directement sur NeoMTA avec tout matériau approprié (Vous n'avez PAS besoin d'attendre que le NeoMTA sèche). Alternativement, vous pouvez utiliser Biocem, verre ionomère, composite, RMGI, ZOE ou autres matériaux appropriés pour NeoMTA avant la restauration finale de la dent.	9. NeoMTA ist beim Einbringen sofort auswaschbeständig. Sie können mit jedem geeigneten Material direkt über NeoMTA restaurieren (Sie müssen NICHT warten, bis das NeoMTA erstarrt ist). Alternativ können Sie BioCem, Glasionomer, Komposit, RMGI, ZOE oder ein anderes geeignetes Material verwenden, um das NeoMTA vor der endgültigen Zahnrestauration zu sichern.	9. Il NeoMTA, una volta posizionato, è da subito resistente al lavaggio. È possibile ripristinare direttamente il NeoMTA con qualsiasi materiale idoneo (NON è necessario attendere l'applicazione del NeoMTA). In alternativa, per fissare il NeoMTA prima della ricostruzione finale del dente, è possibile utilizzare del BioCem, dell'ionomero, del composito, dell'RMGI, dello ZOE o un altro materiale adatto.	9. NeoMTA is onmiddellijk bestand tegen uitwassen wanneer het wordt geplaatst. U kunt direct over NeoMTA restaureren met elk geschikt materiaal (U hoeft niet te wachten tot de NeoMTA is verhard). Als alternatief kunt u ook BioCem, glasionoer, composit, RMGI, ZOE of ander geschikt materiaal gebruiken om de NeoMTA te bevestigen, voorafgaand aan de definitieve tandrestauratie.

## MULTI-PURPOSE FOR EVERY PULP NEED

- Indirect Pulp Cap
- Direct Pulp Cap
- Partial Pulpotomy
- Cavity Liner
- Base
- Pulpotomy
- Apexogenesis
- Resorption
- Apexification
- Obturation



Non-Staining  
BIOACTIVE  
Bioceramic

NuSmile  
NEOMTA<sup>2</sup>

ROOT & PULP  
TREATMENT  
MATERIAL

Does not discolor teeth.  
For Professional Dental Use Only.  
Go to [nusmile.com](http://nusmile.com) for:  
- Safety Data Sheet  
- Frequently Asked Questions  
- Videos

## INSTRUCTIONS FOR USE

### Root and Pulp Treatment Material

#### STEP-BY-STEP MIXING INSTRUCTIONS

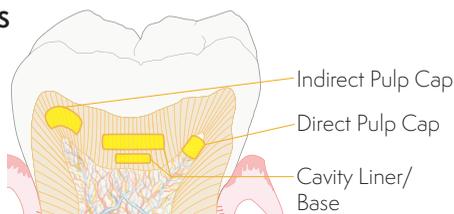
1. Dispense 1 scoop (0.05gm or 0.1gm) of NuSmile NeoMTA 2 Powder on a glass slab.
2. Dispense one or two drops of NuSmile NeoMTA 2 Gel next to the Powder.

**NOTE:** The Gel imparts washout resistance for easier rinsing and faster setting, which other liquids do not. The mixture is immediately washout resistant when mixed as a putty.

3. Gradually add as much Gel as necessary into the Powder to achieve the desired consistency. Incorporate the Gel by spatulating the Powder/Gel mixture firmly against the glass slab to ensure all of the Powder is thoroughly wetted by the Gel. Consistency for:
  - Pulpotomy or apexification - firm putty
  - Pulp capping, base/liner - firm putty or thinner, if desired.
4. If the material is not to be used immediately, cover the mixed material with a gauze sponge moistened with sterile water, or a clean cover to reduce evaporation. If the mixture becomes dry, extra Gel may be used to rewet the material before it sets.
5. If the mixture is too tacky, add a small amount of Powder- less than 1/2 scoop. For future mixtures, use less Gel. Alternatively, spread out mixture to a thin layer on the glass slab to allow some drying. Then use the edge of a metal spatula to gather the material into a putty or other desired consistency.

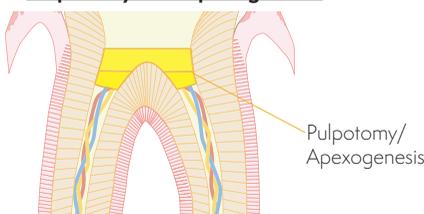
## CLINICAL DIRECTIONS FOR USE

NuSmile NeoMTA 2 is shown in **Yellow**  
**Direct or Indirect Pulp Cap/Base or Liner**



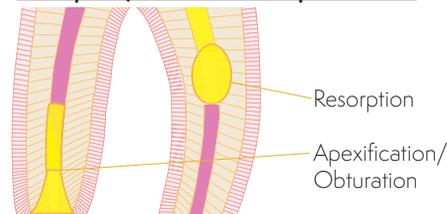
- a) Complete a cavity preparation under rubber dam isolation, using a high-speed bur.
- b) Excavate carious tooth structure using a round bur in a handpiece at low speed or use hand instruments.
- c) Control hemorrhage using a solution of your choice (e.g. sterile saline, sodium hypochlorite (1.25-6.0%) or chlorhexidine). If hemorrhage is still present after 10 minutes, the diagnosis is irreversible pulpitis and vital pulp therapy using MTA may not be indicated.
- d) Use applicator of your choice to apply mixed NuSmile NeoMTA 2 material on the exposed pulp or the floor of the cavity preparation, maintaining a minimum thickness of 1.5mm.
- e) Excess material may be removed using a cotton pellet slightly dampened with sterile water or saline.
- f) NuSmile NeoMTA 2 is washout resistant when placed. Immediately restore over NeoMTA 2 with a light curable composite, glass ionomer, RMGI, compomer, or luting cement and crown. Alternatively, you may use a flowable composite, RMGI, ZOE or other material to secure the NeoMTA 2 prior to final tooth restoration.
- g) Assess the pulp vitality as needed and confirm with a radiograph.

## Pulpotomy and Apexogenesis



- a) Complete a cavity preparation under rubber dam isolation, using a high-speed bur.
- b) Excavate all carious tooth structure using a round bur in a handpiece at low speed or use hand instruments.
  - In multi-rooted teeth remove the roof of the pulp chamber and all remnants of coronal pulp tissue to the level of the orifice of each root canal.
  - In single-rooted teeth, remove the pulp to the level of the cemento-enamel junction or slightly below.
- c) Control hemorrhage using a solution of your choice (e.g. sterile saline, sodium hypochlorite (1.25-6.0%) or chlorhexidine). If hemorrhage is still present after 10 minutes, the diagnosis is irreversible pulpitis and a full pulpectomy with obturation is typically performed instead.
- d) Use an applicator of your choice to apply mixed NeoMTA 2 material on the exposed pulp or the floor of the cavity preparation, covering the pulp stumps while spreading the MTA to the edges of the surrounding dentin to a minimum thickness of 1.5mm.
- e) Excess material may be removed using a cotton pellet slightly dampened with sterile water or saline.
- f) NuSmile NeoMTA 2 is washout resistant when placed. Immediately restore over NeoMTA 2 with a light curable composite, glass ionomer, RMGI, compomer, or luting cement and crown. Alternatively, you may use a flowable composite, RMGI, ZOE or other material to secure the NeoMTA 2 prior to final tooth restoration.
- g) Assess the pulp vitality as needed and confirm with a radiograph.

## Resorption/Obturation or Apexification



NuSmile NeoMTA 2 is shown in **Yellow**, Gutta percha and sealer is shown in **Pink**.

- a) Debride, clean and shape the root canal system using intra-canal instruments under rubber dam isolation.
  - b) Gently rinse the cavity preparation using sodium hypochlorite (1.25-6.0%) or chlorhexidine.
- For Resorption:**
- c) Isolate the resorptive defect site.
  - d) Obturate the canal space apical to the defect.
  - e) Dispense NuSmile NeoMTA 2 material into the defect site with an instrument of clinician's choice.
  - f) Gently compact NuSmile NeoMTA 2 material using a small amalgam plugger, cotton pellets or paper points.
  - g) Confirm placement with a radiograph.
  - h) Excess material may be removed using a cotton pellet slightly dampened with sterile water or saline.
  - i) When the NeoMTA 2 material is firm (a few minutes), obturate the remaining canal space and close the coronal access as you do normally.

Detailed clinical directions for use continued

#### For Obturation or Root Apexification:

- c) Dry the canal system with paper points, being careful not to extend the points beyond a wide-open apex.
- d) Gently compact NuSmile NeoMTA 2 in the apical region, to create a 3 to 5mm apical barrier.
- e) Confirm placement with a radiograph.
- f) Obturate the remaining canal space and close the coronal access.
- g) A full coverage restoration is normally placed following apexification.

#### CONTRAINDICATIONS

- Hypersensitivity against caustic (high pH) solutions.
- Do not use for primary tooth pulpectomy (obturation/root canal filling) unless the permanent successor tooth is absent.

#### WARNINGS

- NuSmile NeoMTA 2 Powder is caustic, as are all tricalcium silicates.

#### PRECAUTIONS

- AVOID contact of unset mixed paste with skin or oral mucosa. After incidental contact, wash and rinse with water.
- Wear suitable gloves and protective glasses during use.

- NuSmile NeoMTA 2 Powder and Gel must be kept well sealed.
- PROTECT the Powder from humidity. Close the container.
- DO NOT contaminate the Powder with an unclean or moist instrument.
- DO NOT contaminate the Gel. Do not remove the dropper tip or insert any instrument into the bottle.
- AVOID touching the bottle tip to any non-sterile surface.
- NuSmile NeoMTA 2 products are provided in clean non-sterile packaging.
- Clinician should follow their established protocols for cleaning and disinfection.

See: [www.cdc.gov/infectioncontrol/pdf/guidelines/disinfection-guidelines-H.pdf](http://www.cdc.gov/infectioncontrol/pdf/guidelines/disinfection-guidelines-H.pdf)

- DO NOT overfill the root canals when obturating or performing apexification.
- Setting of tricalcium silicates is inhibited in acidic environments such as infected sites.

#### ADVERSE REACTIONS

Reversible acute inflammation of the oral mucosa if contacted with the unset paste.

#### INTERACTIONS WITH OTHER DENTAL

##### MATERIALS

None known.

#### STORAGE

Store at room temperature, do not refrigerate. Keep bottles tightly closed. Moisture will reduce the shelf life of the Powder.

#### ADA 57, ISO 6876 and ISO 9917-1 criteria

- Radiopacity 6.5 mm when mixed to putty consistency; 5.4 mm Al when mixed for sealer use.
- Working time at room temperature: ~10 minutes when mixed as a putty; however, addition of more gel may be used to extend the working time is the mixture begins to dry.
- Initial setting time for putty consistency @ 37°C =15 min.; final setting 1:45 hr.
- Flow: 20 mm for sealer use; > 15 mm, as required.
- Film thickness: 38 to 46 µm for sealer use; < 50 µm, as required.
- Solubility < 3%, as required.
- Dimensional stability <+0.1%, as required.
- Pb <100 ppm, As < 2 ppm, as required.

Symbols used on labeling:

	Manufacturer
	Authorized Representative in the European Community
	Prescription Only
	Consult Instructions For Use
	Caution
	Keep Dry
	Lot Number
	Catalog Number
	Expiration Date

Manufactured by:  
NuSmile, Ltd.  
3315 West 12th St.  
Houston, TX 77008  
+1.713.861.0033  
USA

CE  
1639

EC REP KinderDent GmbH  
Gutenbergstraße 7  
Weyhe, D-28844

# NuSmile NeoMTA<sup>2</sup>

