



FOR IDEAL RESTORATIONS





The company, operating in the dental sector in Ankara since 2001, has been producing composite fillings and derivatives since 2014 in line with the needs of the sector.

FSM Dental is a leading company that produces reliable and high quality dental products.

The company first started its activities with the production of artificial acrylic teeth, then expanded its product range with the production of composite-based isocyte teeth, DuoCad PMMA CAD/CAM blocks, temporary crowns and bridges.

In addition to the production of composite fillings, it can serve as a solution partner in the production of Artificial Teeth and Cad/Cam Blocks as an OEM supplier upon request.

Our products:

- 1.Nano Hybrid Composites.
- 2.Micro Hybrid Composites.
- 3.Flow Composites.
- 4.Bulk Flow Composites
- 5.Orthodontic Adhesives
- 6.Nano Hybrid & Flow Composites for Children.
- 7.Bond





Hi-Fill Universal
Hi-Fill Posterior
Hi-Fill Flow
Hi-Fill Kids
Hi-Fill Kids Flow
Hi-Fill Bulk Flow
Hi-Fill Bond
Hi-Fill Orthodontic Flow

HI-FILL UNIVERSAL

NANO HYBRID COMPOSITE FILLING



PRODUCT INFORMATION

Universal nano hybrid composite is a filling material that offers high aesthetics, durability and ease of use. Thanks to the combination of micro and nano-sized particles in a hybrid structure, both mechanical properties and aesthetic appearance are optimized. In dentistry, it is suitable for aesthetic restorations on the anterior teeth and functional and durable restorations on the posterior teeth.

FEATURES & BENEFITS

- **High Aesthetics:** Light transmittance compatible with natural tooth structure.
- **Mechanical Strength:** Resistance to chewing forces.
- **Easy Formability:** Non-adhesion to tools, flowable and ideal viscosity for modeling.
- **Color Options:** Natural look with various color tones.
- **Long-Term Stability:** Abrasion resistance.
- **Low Polymerization Shrinkage:** Less marginal leakage and long-term stability of tooth-filling fit.

INDICATIONS

- In direct restoration of cavities I-II-III-IV and V.
- In cavities on root surface.
- In restoration of broken teeth.
- In cases of diastema.
- In direct veneer laminate restoration.
- In Core construction.
- Aesthetically enhancing color and shape corrections.

PACKAGING

4 g. SYRINGE TUBES

COLOR OPTIONS

A1 - A2 - A3 - A3.5 - B1 - B2 - UD - BW - XBW

HI-FILL UNIVERSAL-SET

UNIVERSAL NANO HYBRID COMPOSITE FILLING SET



PACKAGING & COLOR OPTIONS

7 x 4 g. universal nano hybrid (A1-A2-A3-A3.5-B1-B2)

3 x 2 g. flow (A1-A2-A3)

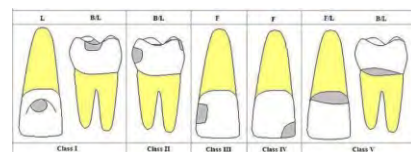
1 x 5 ml. 7th generation bond

Inorganic Filler: 80% by weight - 64% by volume

Application Thickness: 2 mm.



- As a photo initiator, LED light source emitting blue light in a narrow wavelength range between 450-490 nm (1000-1200mW/cm² power), 20 sec. irradiation for each layer, or HALOGEN light source between 380-500 nm (700mW/cm² power) 40 sec. irradiation for each layer is recommended.
- It is recommended for use with the 7th generation All in One Bond.



Class I-II-III-IV-V

Inlay & Onlay

HI-FILL POSTERIOR

LIGHT CURED NANO HYBRID COMPOSITE FILLING



PRODUCT INFORMATION

Nano hybrid posterior composite is a filling material that offers high aesthetics, durability and ease of use. Thanks to the combination of micro and nano-sized particles in a hybrid structure, both mechanical properties and aesthetic appearance are optimized. In dentistry, it is suitable for functional, aesthetic and durable restorations on the posterior teeth.

Inorganic Filler: 80% by weight - 64% by volume

Application Thickness: 2 mm.

FEATURES & BENEFITS

- **High Aesthetics:** Light transmittance compatible with natural tooth structure.
- **Mechanical Strength:** Resistance to chewing forces.
- **Easy Formability:** Non-adhesion to tools, fluid and ideal viscosity for modeling.
- **Color Options:** Natural look with various color tones.
- **Long-Term Stability:** Abrasion resistance.
- **Low Polymerization Shrinkage:** Less marginal leakage and long-term stability of tooth-filling fit.



INDICATIONS

- In direct restoration of class I-II cavities.
- Core construction.
- In restoration of worn teeth.
- In repair of the existing composite filling.
- In erosion and abrasion lesions.

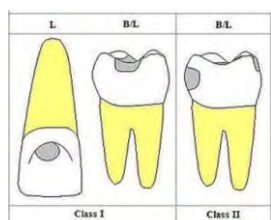
- As a photo initiator, LED light source emitting blue light in a narrow wavelength range between 450-490 nm (1000-1200mW/cm² power), 20 sec. irradiation for each layer, or HALOGEN light source between 380-500 nm (700mW/cm² power) 40 sec. irradiation for each layer is recommended.
- It is recommended for use with the 7th generation All in One Bond.

PACKAGING

4 g. SYRINGE TUBES

COLOR OPTIONS

A1 - A2 - A3 - A3.5 - B1 - B2



Class I-II



Inlay & Onlay

HI-FILL FLOW

FLOWABLE COMPOSITE FILLING



PRODUCT INFORMATION

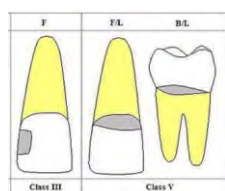
Flow composite filling material is a low-viscosity, light-curing, radiopaque restorative material. It is specially designed for small cavity restorations, liner (priming), repair procedures and aesthetic corrections in dentistry.

FEATURES & BENEFITS

- **Flowability:** With its thin and flowable structure, it provides ideal spread in cavities.
- **Ideal Thixotropy:** Allows controlled filler manipulation
- **Radiopacity:** It can be easily detected in x-rays, thus providing ease of diagnosis.
- **Aesthetic Compatibility:** Wide color gamut that mimics natural tooth color.
- **Long-Lasting Durability:** Strong bonding feature against micro leakage.
- **Easy Application:** Provides ease of use with precision tip injectors.

INDICATIONS

- In Class III and Class V restorations.
- As a base material in class I and II cavities.
- In the repair of porcelain or composite restorations.
- As a liner under amalgam and composite fillings.
- Together with tooth surface corrections and pit & fissure sealants.



Class III-V

PACKAGING

2 g. SYRINGE TUBES

COLOR OPTIONS

A1 - A2 - A3 - A3.5

HI-FILL FLOW SET

FLOWABLE COMPOSITE FILLING SET



PACKAGING & COLORS

6 X 2 g. Syringe (A1-A1-A2-A2-A2-A3)

Inorganic Filler: 73.9% by weight - 57% by volume

Application Thickness: 2 mm.



- As a photo initiator, LED light source emitting blue light in a narrow wavelength range between 450-490 nm (1000-1200mW/cm² power), 20 sec. irradiation for each layer, or HALOGEN light source between 380-500 nm (700mW/cm² power) 40 sec. irradiation for each layer is recommended.
- It is recommended for use with the 7th generation All in One Bond.

HI-FILL KIDS

COLORED NANO HYBRID COMPOSITE FILLING (CHILD)



PRODUCT INFORMATION

The aim of the production of colored composites is to facilitate the treatment process in dentistry and to make the experiences of patients (especially children) more positive. Colored nano hybrid composite is a filling material that offers high aesthetics, durability and ease of use. Thanks to the combination of micro and nano-sized particles in a hybrid structure, both mechanical properties and aesthetic appearance are optimized. In dentistry, it is ideal for achieving colorful, aesthetic, functional and durable restorations in milk teeth. Optionally, it is also suitable for use in adult patients.

FEATURES & BENEFITS

- **Reducing Fear of Treatment:** Children are often afraid of dental treatments. Colorful and fun materials are designed to reduce children's fear and make them perceive the treatment as a game.
- **Increasing Motivation:** Since it gives children the opportunity to choose color, they may be more cooperative with the dentist during treatment.
- **Visual Difference:** The fact that the colored filling is clearly visible on the tooth facilitates the post-treatment control and follow-up processes. It is easier to remove or replace if necessary.
- **Ideal Mechanical Strength:** Resistance to chewing forces.
- **Easy Formability:** Non-adhesion to tools, flow and ideal viscosity for modeling.
- **Long-Term Stability:** Abrasion resistance.
- **Low Polymerization Shrinkage:** Less marginal leakage and long-term stability of tooth-filling fit.

INDICATIONS

- In restoration of milk teeth.
- In temporary restorations of permanent teeth.
- Fissure sealant applications.
- Optionally, permanent restorations in permanent teeth.

PACKAGING

2 g. SYRINGE TUBES

COLOR OPTIONS



HI-FILL KIDS-SET

COLORED NANO HYBRID COMPOSITE FILLING SET (CHILD)



COLOR OPTIONS



PACKAGING

6 x 2 g. kids nano hybrid composite syringe

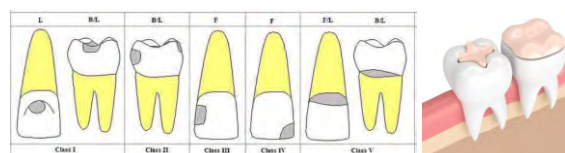
1 x 5 ml. bond

Inorganic Filler: 80% by weight - 64% by volume

Application Thickness: 2 mm.



- As a photo initiator, LED light source emitting blue light in a narrow wavelength range between 450-490 nm (1000-1200mW/cm² power), 20 sec. irradiation for each layer, or HALOGEN light source between 380-500 nm (700mW/cm² power) 40 sec. irradiation for each layer is recommended.
- It is recommended for use with the 7th generation All in One Bond.



Class HI-III-IV-V

Inlay & Onlay

HI-FILL KIDS FLOW

COLORED FLOW COMPOSITE FILLING (CHILD)



PRODUCT INFORMATION

The aim of the production of colored composites is to facilitate the treatment process in dentistry and to make the experiences of patients (especially children) more positive. Colored nano hybrid fluid composite is a filling material that offers high aesthetics, durability and ease of use. Thanks to the combination of micro and nano-sized particles in a hybrid structure, both mechanical properties and aesthetic appearance are optimized. In dentistry, it is ideal for achieving colorful, aesthetic, functional and durable restorations in milk teeth. Optionally, it is also suitable for use in adult patients.

FEATURES & BENEFITS

- **Reducing Fear of Treatment:** Children are often afraid of dental treatments. Colorful and fun materials are designed to reduce children's fear and make them perceive the treatment as a game.
- **Increasing Motivation:** Since it gives children the opportunity to choose color, they may be more cooperative with the dentist during treatment.
- **Visual Difference:** The fact that the colored filling is clearly visible on the tooth facilitates the post-treatment control and follow-up processes. It is easier to remove or replace if necessary.
- **Ideal Mechanical Strength:** Resistance to chewing forces.
- **Long-Term Stability:** Abrasion resistance.
- **Low Polymerization Shrinkage:** Less marginal leakage and long-term stability of tooth-filling fit.
- **Easy Application:** Provides ease of use with precision tip injectors.
- **Fluidity:** With its thin and fluid structure, it provides ideal spread in cavities.

INDICATIONS

- In restoration of milk teeth.
- In temporary restorations of permanent teeth.
- Fissure sealant applications.

PACKAGING

2 g. SYRINGE TUBES

COLOR OPTIONS



HI-FILL KIDS FLOW-SET

COLORED FLOW COMPOSITE FILLING (CHILD)



COLOR OPTIONS



PACKAGING

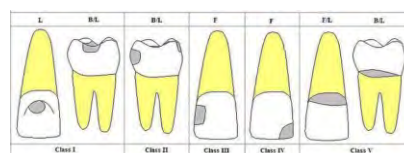
6 x 2 g. Kids Flow Composite Syringes
1 x 5 ml. bond

Inorganic Filler: 73.9% by weight - 57% by volume

Application Thickness: 2 mm.



- As a photo initiator, LED light source emitting blue light in a narrow wavelength range between 450-490 nm (1000-1200mW/cm² power), 20 sec. irradiation for each layer, or HALOGEN light source between 380-500 nm (700mW/cm² power) 40 sec. irradiation for each layer is recommended.
- It is recommended for use with the 7th generation All in One Bond.



Class I-II-III-IV-V



Inlay & Onlay

HI-FILL BULK FLOW

BULK FLOW - FLOWABLE COMPOSITE FILLING



PRODUCT INFORMATION

Bulk Flow composite is a composite filling material with high flowability properties used for restorative procedures in dentistry. It is designed for faster and more effective filling of deep cavities, especially in the posterior regions. Thanks to Bulkfill technology, it allows the material to be used up to 4 mm in a single application layer; This eliminates the need to apply thin layers in traditional composites.

FEATURES & BENEFITS

- **Flow Structure:** The material easily penetrates the micro-details of the cavities, has high adaptability and minimizes air gaps.
- **High Polymerization Depth:** Thanks to its improved light transmittance, it hardens effectively even in thick layers.
- **Low Shrinkage Stress:** Reduces the stresses that occur during hardening, thus ensuring the longevity of the restoration.
- **Aesthetic Harmony:** It has different color options that adapt to the natural tooth structure.
- **Radiopacity:** It can be clearly seen on X-ray images, which facilitates post-treatment evaluation and follow-up processes.
- **Time Saving:** It reduces the number of layers as it can be polymerized up to 4 mm in a single layer.
- **Ease of Application:** Its fluid structure provides comfortable use, especially in narrow or hard-to-reach cavities.
- **Reliable Performance:** Offers low polymerization shrinkage and high mechanical strength.

INDICATIONS

- As a base material in class I and II cavities.
- In class V restorations that are not in the aesthetic field.
- As a liner under amalgam and composite fillings.
- Together with tooth surface corrections and pit & fissure sealants.
- In the restoration of the teeth to be crowned.

PACKAGING & COLOR OPTIONS

2 g. SYRINGE TUBES

CLEAR - A1 - A2

HI-FILL BULK FLOW-SET

BULK FLOW - FLOWABLE COMPOSITE FILLING SET



PACKAGING & COLOR OPTIONS

4 x 2 g. SYRINGE TUBES

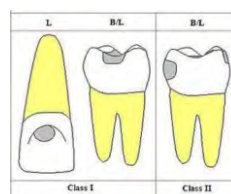
CLEAR - A1 - A2

Inorganic Filler: 72.4% by weight - 57% by volume

Application Thickness: 4 mm.



- As a photo initiator, LED light source emitting blue light in a narrow wavelength range between 450-490 nm (1000-1200mW/cm² power), 20 sec. irradiation for each layer, or HALOGEN light source between 380-500 nm (700mW/cm² power) 40 sec. irradiation for each layer is recommended.
- It is recommended for use with the 7th generation All in One Bond.



Class I-II

HI-FILL BOND

ONE COMPONENT LIGHT CURED ADHESIVE



PRODUCT INFORMATION

The 7th generation one-component bond system is a self-etch bonding system in dentistry in which both pickling and primary and bonding agents are combined. These systems provide effective bonding to both dentin and enamel and offer ease of application and time savings.

It is suitable for use in selective etch (roughening only tooth enamel with phosphoric acid) and total etch (roughening on both enamel and dentin with phosphoric acid) procedures. It is a universal bonding agent that polymerizes with radiation with ideal adhesion and adhesion strength.

FEATURES & BENEFITS

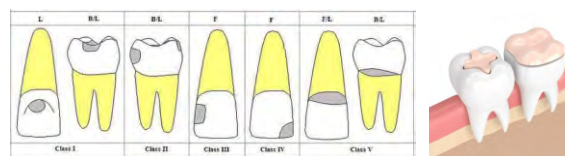
- **Easy and Fast Application:** Since it is a single component, it shortens the application time.
- **Minimal Technical Precision:** Humidity control requires less precision than conventional total-etch systems.
- **Reduced Post-Operative Sensitivity:** It provides obstruction of dentin tubules and reduces the risk of sensitivity.
- **Low Film Thickness:** The thin film layer increases the adaptability of the restoration.
- **High Bonding Strength:** Provides strong bonding to both enamel and dentin.

PACKAGING

5 ml. BOTTLE

INDICATIONS

- Bonding of direct restorations of all cavity classes (Black) using light, dual or self-polymerizing methacrylate-based composites/compomers.
- Bonding of light, dual or self-polymerizing core making materials.
- Covering hypersensitive tooth areas.
- Covering cavities before amalgam restorations.
- Bonding fissure sealants.
- Closure of cavities and core preparations before applying temporary cementation to indirect restorations (in accordance with the dentin closure technique applied without delay)
- Cementation of indirect restorations with light, dual or self-polymerizing adhesive resin cements.
- Intraoral repair of composite and compomer restorations, metal-supported porcelain and all-ceramic restorations, metal restorations.



Class I-II-III-IV-V

Inlay & Onlay



As a photo initiator, LED light source emitting blue light in a narrow wavelength range between 450-490 nm (1000-1200mW/cm² power), 10 sec. irradiation for each layer, or 380-500 nm HALOGEN light source (700mW/cm² power) 20 sec. irradiation for each layer is recommended.

HI-FILL ORTHODONTIC FLOW

LIGHT CURED NANO HYBRID ORTHODONTIC ADHESIVE



PRODUCT INFORMATION

It is an orthodontic dental material developed on the basis of composite, polymerized by light, with high adhesion strength and durability, used to fix orthodontic brackets on the tooth surface. Its viscosity is adjusted in such a way that it can easily spread to the pores of the adhesion surface of the bracket and prevent slipping during tooth placement. It is compatible with both metal and ceramic brackets and can be used safely in long-term orthodontic treatments.

FEATURES & BENEFITS

- **High Adhesion Strength:** Creates a strong bond between the tooth and the bracket.
- **Controlled Working Time:** Since it is polymerized with light, it gives the dentist sufficient working time.
- **Ideal Viscosity:** The adhesion surface of the bracket is adjusted so that it can easily spread into the pores and prevent slipping during tooth placement.
- **Low Polymerization Shrinkage:** Thanks to the high filler ratio it contains, it shows minimum shrinkage effect during hardening.
- Compatible with routine bracket bonding protocols.
- It is compatible with natural tooth color.
- It can be removed without damaging the enamel of the tooth.
- It is one-component, does not require mixing.

INDICATIONS

- **Fixing of Orthodontic Brackets:** Bonding metal, ceramic, composite and polycarbonate brackets to the tooth surface.
- **Bonding Orthodontic Tapes:** Fixing special accessories or tubes.
- Fixation of temporary orthodontic devices.

HI-FILL ORTHODONTIC FLOW SET

LIGHT CURED NANO HYBRID ORTHODONTIC ADHESIVE SET



PACKAGING

3 X 3 g. SYRINGE + 5 ml. BOND



- As a photo initiator, LED light source emitting blue light in a narrow wavelength range between 450-490 nm (1000-1200mW/cm² power), 10 sec. irradiation for each layer, or 380-500 nm HALOGEN light source (700mW/cm² power) 20 sec. irradiation for each layer is recommended.
- It is recommended for use with the 7th generation All in One Bond.

PACKAGING

3 g. SYRINGE TUBES



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