RIVA STAR
RIVA STAR AQUA

THE NEXT GENERATION SDF SYSTEM

SDF INNOVATION: RIVA STAR

50+ YEARS DENTISTRY SCIENCE

Silver Diamine Fluoride (SDF) has a proven clinical history of treating dentine hypersensitivity for over 50 years.[1]

Drawing on 50+ years of dental research experience and proudly developed in SDI's state of the art manufacturing facility in Australia, Riva Star is an SDF solution system used to desensitise teeth.

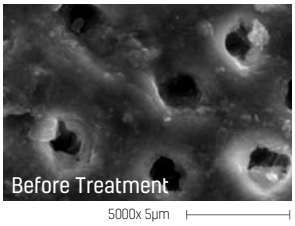
RIVA STAR KEY BENEFITS

1 A PROVEN SDF SOLUTION [2]

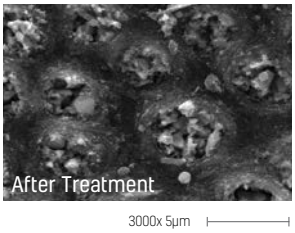
Clinical studies have shown that 38% SDF solutions can successfully desensitise teeth. Riva Star SDF solution contains 38% Silver Fluoride in ammonia solution.

2 INSTANT SENSITIVITY RELIEF [3]

The silver fluoride and potassium iodide in Riva Star forms a low-solubility precipitate that blocks the microscopic dentinal tubules, providing instant relief.



Exposed dentinal tubules are well known for causing dentine hypersensitivity.



Insoluble silver iodide precipitates occluding dentinal tubules, immediately eliminating sensitivity.

Images courtesy of Dr. Geoff Knight

3 TWO-YEARS OF EFFECTIVE DESENSITISING [4]

A clinical study supports the immediate effect after one application with Riva Star; desensitisation lasts for two years.

4 RIVA STAR STEP 2 FOR REDUCED STAINING [5]

Riva Star is not expected to stain sound tooth structure. In the case of contact with unsound tooth structure, Riva Star Step 2 will reduce the staining. By applying the potassium iodide solution (KI) over the silver diamine fluoride (SDF), a silver iodide creamy white precipitate is formed which then turns clear.

7 days post treatment for sensitivity with Riva Star (SDF + KI)

Image source : Dr. Leticia Vieira - Brazil

NEXT GENERATION SDF: RIVA STAR AQUA

SDI continues to innovate silver fluoride technologies with the development of Riva Star Aqua, the next generation water based silver fluoride system. Riva Star Aqua is also a two-step patented system used to desensitise teeth in a few drops.

Riva Star Aqua is an aqueous silver fluoride solution without the ammonia base.

RIVA STAR AQUA KEY BENEFITS

1 SIMILAR PERFORMANCE TO SDF [6]
Studies have shown that Riva Star Aqua's ammonia-free formulation is as effective as Riva Star SDF.

2 INSTANT SENSITIVITY RELIEF [3]
The silver fluoride and potassium iodide in Riva Star forms a low-solubility precipitate that blocks the microscopic dentinal tubules, providing instant relief.

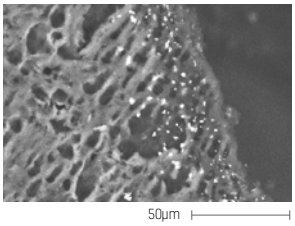


Image shows the reaction of AgF and KI to AgI in the first 50 microns below the surface.

Image courtesy of Dr. Geoff Knight

3 RIVA STAR STEP 2 FOR REDUCED STAINING [5]
Riva Star Aqua is not expected to stain sound tooth structure. In the case of contact with unsound tooth structure, Riva Star Step 2 will reduce the staining. By applying potassium iodide solution (KI) over Riva Star Aqua, a silver iodide creamy white precipitate is formed which then turns clear.

4 TWO-YEARS OF EFFECTIVE DESENSITISING [4]
Building on the proven clinical performance of Riva Star, Riva Star Aqua is expected to deliver immediate desensitisation with long-lasting effect of up to two years.

5 ODOURLESS FORMULATION WITH MINIMISED SOFT TISSUE IRRITATION [7]
Riva Star Aqua is water-based and ammonia-free. This reduces soft tissue irritation and eliminates the ammonia odour that may be a barrier to patient acceptance.

6 NO GINGIVAL BARRIER REQUIRED [8]
As no ammonia is present, the potential for irritation is reduced. Therefore, Riva Star Aqua can be used with simple soft tissue protection methods (e.g: cocoa butter) instead of Gingival Barrier (SDI Limited). Treatment time is quicker and more comfortable for patients.

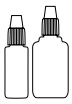
PRODUCT COMPARISON

	RIVA STAR **Silver Diamine Fluoride (SDF)**	**RIVA STAR AQUA** **Silver Fluoride (AgF)**
Process	2 step patented process	2 step patented process
Formulation	Step 1 : 38% Silver Fluoride in an ammonia solution (SDF). Step 2 : Potassium Iodide solution	Step 1 : ≈38% Silver Fluoride (AgF) in water. Step 2 : Potassium Iodide solution
pH	pH > 10	Physiological pH
Two years and beyond desensitising effect	✔	✔
Staining reduction / elimination with Step 2 (Potassium Iodide)	✔	✔
Delivery system (capsules)	✔	✔
Delivery system (bottles)	✔	✔
Storage requirements (bottles)	Room temperature : 2 - 25 °C (35 - 77 °F)	Room temperature : 2 - 25 °C (35 - 77 °F)
Storage requirements (capsules)	Refrigerated storage : 2 - 8 °C (35 - 46 °F)	Room temperature : 2 - 25 °C (35 - 77 °F)
Soft tissue irritation	Likely (without protection)	✔ Reduced
Odour / Taste	Ammonia odour	✔ Odourless

ORDER DETAILS

RIVA STAR	
Riva Star Kit 10 x Riva Star Step 1 Silver Capsules 10 x Riva Star Step 2 Green Capsules 2 x 1mL Gingival Barrier syringes Accessories	
USA	8800504
EUROPE	8800505
AUSTRALIA	8800507

RIVA STAR AQUA	
Riva Star Aqua Kit 10 x Riva Star Aqua Step 1 Silver-Blue Capsules 10 x Riva Star Step 2 Green Capsules Accessories	
USA	8800527
EUROPE	8800525
AUSTRALIA	8800526



RIVA STAR	
Riva Star Bottle Kit 1 x 1.5mL Riva Star Step 1 Bottle 1 x 3.0mL Riva Star Step 2 Bottle	
USA	8800537
EUROPE	8800535
AUSTRALIA	8800536

RIVA STAR AQUA	
Riva Star Aqua Bottle Kit 1 x 1.5mL Riva Star Aqua Step 1 Bottle 1 x 3.0mL Riva Star Step 2 Bottle	
USA	8800532
EUROPE	8800530
AUSTRALIA	8800531

[1] Faith Miaomiao Zhenga et al. Silver diamine fluoride therapy for dental care. Japanese Dental Science Review. 2022; 58:249-257

[2] Craig GG. Clinical evaluation of a diamine silver fluoride/potassium iodide as a dentine desensitizing agent: 2-year follow up. 2014.

[3] Alice Kit Ying Chan, et al. Treating hypersensitivity in older adults with silver diamine fluoride: A randomised clinical trial, Journal of Dentistry. 2023:136

[4] Craig GG. Clinical evaluation of a diamine silver fluoride/potassium iodide as a dentine desensitizing agent: 2-year follow up. 2014.

[5] Aly MM et al. Potential discolouration of silver diamine fluoride versus silver diamine fluoride/potassium iodide in primary teeth: a randomised clinical study. Br Dent J. 2022; 6:1-6.

[6] Jacob Donohue et al. Hydraulic Conductance of Human Dentin Treated With Silver Fluoride. IADR Presentation #3290, 2017

[7] Isabel Cristina Olegário et al. A randomized clinical trial of ammonia-free silver fluoride for treating cavitated dentine caries in primary teeth: adverse effects, short-term discolouration, and patient-reported outcomes. European Archives of Paediatric Dentistry. 2026; 27:845-854

[8] Internal data

SDI

YOUR **OUR**
SMILE. **VISION.**

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