



Permatter

3 Year Warranty

Engineeringly Optimized Retention Treatment

Our fully custom retainers help you reduce "orthodontic relapse amount" of your practice by combining your expertise with our technology.

Last Update - Version 3.4

Manufactured over 25.000
fixed - retainers till date

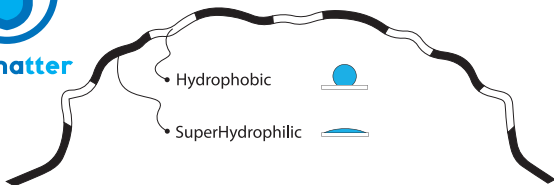
permatter.com

World's 1st Dual Surface Lingual Retainer



Permatter Retainer

Permatter



Permatter Retainer TM is the inventor of "Dual Surface - Lingual Retainer" approach. Last updates are focused to develop advanced surface technology for orthodontic retention treatment. Permatter V.3.4 brings Hydrophobic and SuperHydrophilic surfaces together.

SuperHydrophilic surfaces show 3 times better bonding properties;

Hydrophobic surfaces prevent biofilm accumulation, at least %60 less;

than any other conventional fixed orthodontic retainer.

Retention period is generally longer than 1 year, and in some orthodontic cases, it can even be more than 5 years. Most common problem associated with the prior art is that retainers suffer debonding or damaging and biofilm problems in long term usage due to the randomly and not selectively roughened surfaces. This has been achieved through a specific surface roughness profile as defined in ISO 4287 standards regarding surface texture parameters.

3 Year Warranty



Scientific and Engineered Approach for Orthodontic Retention Treatment

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Supported by in-vitro tests*

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CERTIFICATES

Permattter



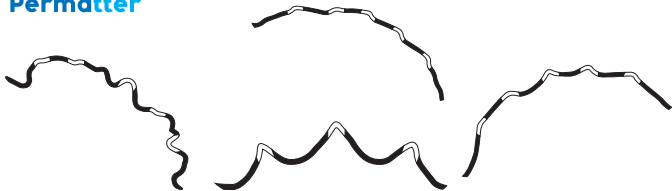
International Standards for Permanent Orthodontic Retention Treatment

CERTIFICATES



Heat Treatment + Surface Texturing

Permather



- Permather Retainer™ is made to fit, with a thickness of 0.45 x 0.45 mm (0.018" x 0.018") and ASTM F2063 medical grade material
- Permather Retainer-CAD Simulation ® allows exact placement and bite comfort
- Developed and tested with scientific in-vitro applications
- Heat Treatment and Advanced Surface Engineering Approaches for at least 3 year usage

Result: Better bonding and less bio-film accumulation



“Dual Surface” approach for long-term usage and better oral hygiene

Permatter

- SuperHydrophilic surface shows, low contact angle, good adhesiveness, good wettability and high solid surface free energy. It ensures higher debonding forces for orthodontic retainer
- Hydrophobic surface shows, high contact angle, poor adhesiveness, poor wettability, low solid surface free energy, and mostly expressed with “lotus effect”. Combined effects of roughness and hydrophobicity results in self-cleaning surfaces of the orthodontic retainer
- Perfect customization and maximum wearing comfort
- Ensures a permanent treatment result



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