



**PROTECTS YOUR TEXTILES FROM
MICROORGANISMS**

WEAR IT, ALWAYS FEEL FRESH
AND CLEAN

Kets | **MATTRESS®
TICKING**

THE ART OF
Comfortable Sleep.

#Healt&Hygiene / #AntiBacterial / #BioBarrier

ketsmattressticking.com

How does it work?

BioBarrier is an innovative technology that protects textile products from microorganisms and ensures that bedding fabrics are always fresh and clean. With this technology, a protective layer is formed on the textile surface. This protective shield is adhered to the textile surface with very strong molecular bonds; it does not move away from the textile by washing or physical contact. When microbes come into contact with this surface, the membrane layer protecting the microbe is inactivated by disintegrating as if faced with a sword.

This prevents the mechanically inactivated microbe from multiplying and spreading on the textile and the emergence of undesirable odours. BioBarrier destroys some special fungi that break down the food (skin cells) in the environment for the survival of house mites. Thus, prey mites cannot survive due to the breakage of the food chain. With its non-migratory technology, BioBarrier offers you a unique and sustainable environment.



Advantages

Protects the freshness of the textile product by preventing odour development caused by bacteria and fungi.



It has no negative effect on the rubbing fastness and light fastness of the textile product.



Protects the hygiene of textiles by breaking the food chain of dust mites and eliminating their ability to digest food.



It is not removed from the textile surface by repeated washing. In case of successful application with BioBarrier technology, the antimicrobial effect lasts throughout the lifetime of the textile.



Features

It is easy to apply, compatible with numerous application processes and can be applied to all natural and synthetic fibres and fabrics.

- It has no adverse effect on the rubbing fastness and light fastness of textiles.
- Odourless and colourless; improves the handle of most textile surfaces.
- It allows an easy quality control system: After the textile product has been treated, it is possible to determine by a simple visual analytical method whether the antimicrobial agent is present on the fabric. This control process can even be applied to the product on sale in the shop.



Test Result

ANTİMİKROBİYAL TEST SONUCU / Antimicrobial Test Results

ASTM E2149 - 20 Dinamik Koşullar Altında Migre Olmayan Antimikrobiyal Etken Maddeler için

Etkinlik Testi / Standrat Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions

Test Numunesi Test Sample	Bakteriyel Mikrobiyolojik Analiz Sonuçları Microbiological Analysis			Çalkalama Süresi Contact Time	
	C* (kob/cfu)	A* (kob/cfu)	%Bakteri Azalması* Bacterial Reduction %*	1 saat / 1 hours	24 saat / 24 hours
20930227	1.1x10	<30	99,99		
20930227	1.1x10	8.0x10	99,93		
20930227	1.1x10	2.2x10	98		



Test Result

- *Kob: Kalanı Oluşturan Birim / *cfu: Colony Farming Units*
 - *A: Belirlenmiş temas süresi sonunda işlem görmüş numunedeki bakteri sayısı {kob/ml} / CFU per millilitre for the flask containing the treated substrate after the specified contact time*
 - *C: Belirlenmiş temas süresi sonunda işlem görmüş numunedeki bakteri sayısı {kob/ml} / CFU per millilitre for the flask containing the untreated substrate after the specified contact time*
 - *Bakteri Azalması / Bacterial Reducation*
1. ASTM E2149-20: 1.0+0,1 G numune, 50 ml 0.3 mM KH_2PO_4 1,5-3.0x10⁵ kob/ml E.coli ATCC 25922
 2. ASTM E2149-20: 1.0+0,1 g sample, 50ml 0,3 mM KH_2PO_4 1,5-3.0x10⁵ cfu/ml E.coli ATCC 25922

	Test edilen bu numune yeterli alanda bakteri azalması sağlamıştır. Kalite Kontrol Standartlarımız ve kriterlerimiz gereği numune testten “GEÇER” sonucunu almıştır. The sample treated shows significant bacterial reduction. This sample FAIL the quality control standards and critrea.
	Test edilen bu numune yeterli alanda bakteri azalması sağlamamıştır. Kalite Kontrol Standartlarımız ve kriterlerimiz gereği numune testten “KALIR” sonucunu almıştır. The sample treated does not show ignificant bacterial reduction. This sample FAIL the quality control standards and critrea.

2. Geçer / Kalır kıtası BI-OME® Kalite Güvence Standartlarına göre yapılır.
Pass/Fail: Based on the BI-OME® Quaility Assurance Standards



The background is a solid teal color with a pattern of various-sized, semi-transparent squares and rounded rectangles scattered across it. Some of these shapes have thin white outlines.

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