

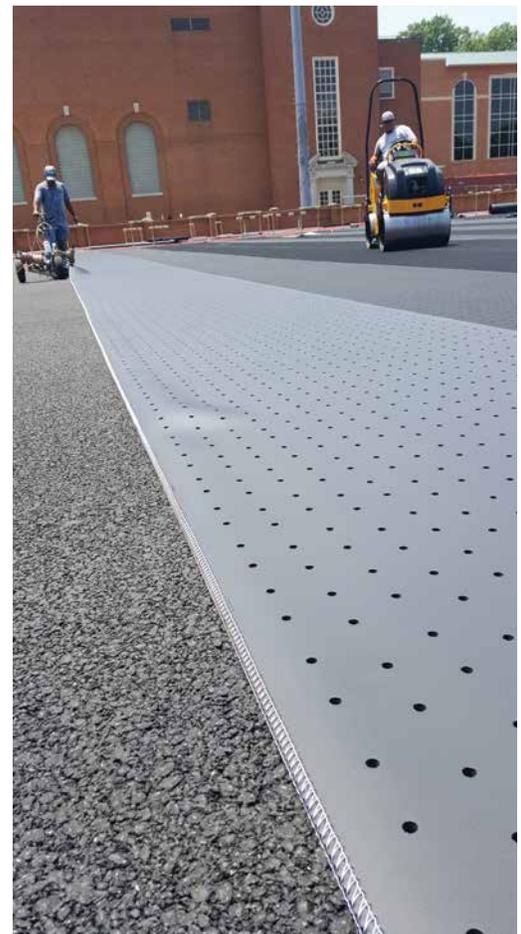
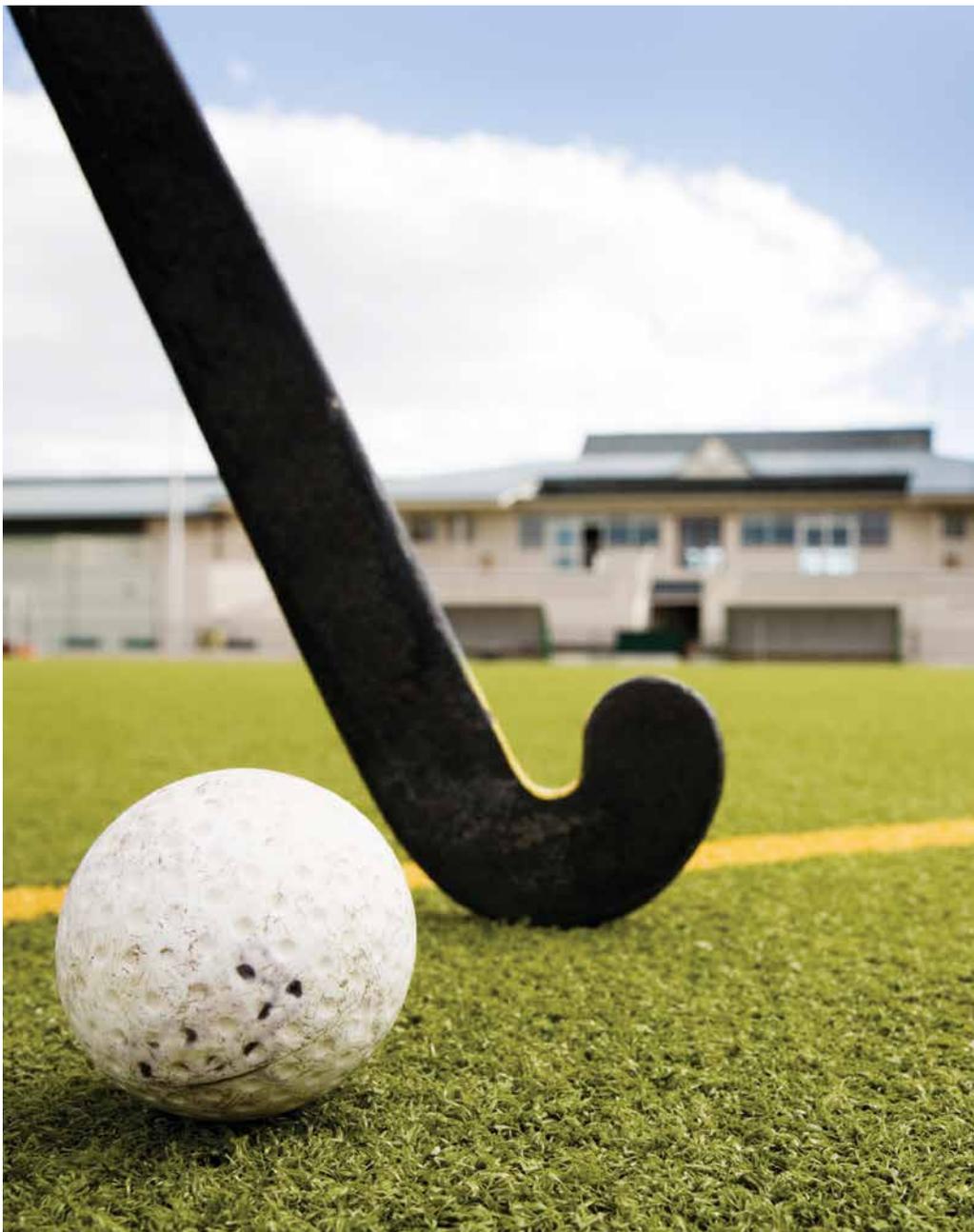
100% PROTECTION FOR THE WINNING EDGE

# ArmaSport<sup>TU2</sup>

Armacell's ArmaSport<sup>®</sup> TU2 is the ideal turf underlayment shock pad for exceptional sports field performance and consistent playing conditions from goal to goal.

- // Ideal turf underlayment pad for exceptional sports field performance and consistent playing conditions
- // Black Vinyl Nitrile (NBR / PVC) blended rubber product
- // ASTM D 1056 2A2 / 2C2 / 2B2 closed cell rubber
- // Manufactured in rolls

[www.turf.armacell.us](http://www.turf.armacell.us)



 **armacell**<sup>®</sup>  
ArmaSport<sup>®</sup>

# Unbeatable Protection

ArmaSport® is the superior turf underlayment for greater field performance and consistent playing conditions. As a shock pad, ArmaSport TU2 cushions the playing surface, providing consistent shock attenuation across the entire field surface. It features closed-cell elastomeric foam technology, an optional drainage system, antimicrobial protection, and long, wide rolls for easy installation. ArmaSport turf underlayment is manufactured by Armacell, an innovator in foam technologies and a leading-edge, global manufacturer for more than 60 years.



## Performance that's Engineered for Success.

Armacell's ArmaSport turf underlayment shock pad is a proven turf pad for exceptional sports field performance and consistent playing conditions. Unlike fields that depend on infill material, ArmaSport installations provide protection across 100% of the field – no loss or migration of the cushioning material.

ArmaSport shock pad provides smooth, flat coverage under synthetic turf field installations. Used with or without infill material, ArmaSport installations provide continuous protection, but with no direct contact with the players. This means athletic directors can count on the same amount of shock pad anywhere on the field—all the time—ensuring a safer playing environment for the team.

Athletic programs trust the expertise Armacell brings to athletic directors, facilities managers, or turf professionals responsible for installing and maintaining premier synthetic turf fields.

### Applications:

(Suitable for use under any synthetic turf field)

- // Field Hockey
- // Football
- // Soccer
- // Lacrosse
- // Baseball
- // Scrimmage field
- // Indoor practice fields
- // Multi-purpose/Multi-use fields
- // Portable fields
- // Warm-up areas

### Features:

- // Provide consistent shock attenuation across the entire playing surface
- // 100% protection, 100% of the time
- // Unlike infill, no loss or migration of the cushioning material
- // Turf-carpet widths make installation fast
- // Optional drainage system



## PHYSICAL PROPERTY GUIDE

| ArmaSport | Density (lb / ft <sup>3</sup> ) | Density (kg / m <sup>3</sup> ) | 25% Compression Deflection (psi) | 25% Compression Deflection (kPa) | Polymer   | Color |
|-----------|---------------------------------|--------------------------------|----------------------------------|----------------------------------|-----------|-------|
| TU2       | 6.5 - 8.5                       | 104 - 136                      | 6 - 9                            | 41.4 - 62.1                      | PVC / NBR | Black |

## WATER INFILTRATION / DRAINAGE

// **Test Method:** British Standard (BS) 7044 Method 4  
 // **Title:** Determination of infiltration rate-buffered ponding-type infiltrometer

// **Standard Turf Description:** 42 oz. (2.25" Pile Height) Monofilament Synthetic Turf  
 // **Infill:** 3.3 lbs / ft<sup>2</sup> Rubber mixed with 3.0 lbs / ft<sup>2</sup> Sand

### ArmaSport Turf Underlayment Pad

| TU2   | TU2   | TU2   | No Pad                   |
|---|---|---|--------------------------|
| Pad Description:<br><b>5/8" flat pad no ridges and not perforated</b> | Pad Description:<br><b>5/8" perforated flat pad</b> | Pad Description:<br><b>5/8" ridges and perforated pad</b><br><b>Note: Pad was tested with ridge side down</b> |                          |
| Inches / hour = 3   | Inches / hour = 25                                  | Inches / hour = 31  | Inches / hour = 52       |
| Centimeters / hour = 7  | Centimeters / hour = 64                             | Centimeters / hour = 79   | Centimeters / hour = 132 |
| Note: Drainage was lateral between the turf and pad                   |   |   |                          |

## SHOCK ABSORPTION: G-MAX

// **Test Method:** ASTM F 355 (2 foot [24"] Drop Height)  
 // **Title:** Standard Test Method for Shock-Absorbing Properties of Playing Surface Systems and Materials

// **Standard Turf Description:** 42 oz. (2.25" Pile Height) Monofilament Synthetic Turf  
 // **Infill:** 3.3 lbs / ft<sup>2</sup> Rubber mixed with 3.0 lbs / ft<sup>2</sup> Sand  
 // **Sub Base:** 3" crushed rock

| Description of Turf and Infill              | ArmaSport Turf Underlayment Pad |                       |                       |
|---|---------------------------------|-----------------------|-----------------------|
|   | TU2                             |                       |                       |
|   | 5/8" Pad with No Ridges         |                       |                       |
|   | G-max Reading Drop #2           | G-max Reading Drop #3 | Average G-max Reading |
| Pad under standard turf and standard infill | 57                              | 59                    | 58                    |
| Pad under standard turf and half infill     | 64                              | 67                    | 66                    |
| Pad under standard turf and no infill       | 83                              | 91                    | 87                    |
| NO PAD standard turf and standard infill    | 118                             | 125                   | 122                   |



## PHYSICAL PROPERTIES GUIDE CHART

| Physical Property  | ArmaSport TU2   |   |
|--|---|---|
| Polymer  | PVC / NBR   |   |
| Color  | Black   |   |
| Form   | Rolls (Sheets Available)  |   |
| Ridges   | Available with and without                                      |   |
| Perforation  | Available with and without                                      |   |
| ASTM D 1056 Designation  | 2A2 / 2C2 / 2B2   |   |
| Compression Deflection, 25% (psi) per ASTM D 1056  | 6 - 9 psi (41.4 - 62.1 kPa)                                     |   |
| Density per ASTM D 1056, lb / ft <sup>3</sup>  | 6.5 - 8.5 lb / ft <sup>3</sup> (104 - 136 kg / m <sup>3</sup> ) |   |
| Compression set, 50% compression, 22 h @ room temperature, 24 h recovery, % of original deflection per ASTM D 1056 | 25% max   |   |
| Water Absorption by wt. % per ASTM D 1056  | ≤5%   |   |
| Tensile Strength per ASTM D 412 Die A, psi (kPa)   | 80 psi min (551 kPa min)  |   |
| Elongation per ASTM D 412 Die A, %   | 100% min  |   |
| Tear Strength per ASTM D 624 Die C, lb/in  | 10 lb / in min (1.75 kN/m min)                                  |   |
| Shock Absorption per ASTM F 355 (24" drop)   |   |   |
| Standard Turf Description:   | G-max   | Description of foam and test condition      |
| 42 oz (2.25" PH) Monofilament Synthetic Turf   | 58  | Ridged foam under turf with standard infill |
| Infill: 3.3 lbs / ft <sup>2</sup> Rubber mixed with 3.0 lbs / ft <sup>2</sup> Sand                                 | 66  | Ridged foam under turf with half infill     |
| Sub Base: 3" crushed rock<br>All pad thicknesses = 5/8" (0.625")   | 87  | Ridged foam under turf with no infill       |

### All ArmaSport Pads

|  |  |   |
|--|--|---|
| Water Infiltration Rate per BS 7044 Method 4 (in / hour) and (cm / hour) | 5/8" flat pad (no ridges or perforation) under standard turf and infill:<br>5/8" flat perforated pad under standard turf and infill:<br>5/8" ridged and perforated pad under standard turf and infill:<br>No pad under standard turf and infill: | 3" (7 cm) / hour<br>25" (64 cm) / hour<br>31" (79 cm) / hour<br>52" (132 cm) / hour |
| Fungus Resistance per ASTM G 21  | Rating 0<br>Specimen remained free of fungal growth  |   |
| Ozone Resistance per ASTM D 1171   | Rating 0<br>No Cracking  |   |

All data and technical information are based on results achieved under typical application conditions. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. By ordering/receiving product you accept the **Armacell General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these.

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## ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,000 employees and 25 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.



For more information, please visit:  
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