

# SPORTS SURFACES

DATA SHEET

## ATHLON 199 AL

**One-component low reactivity elastic polyurethane binder for rubber granules**

### CHARACTERISTICS

Athlon 199 AL is an aliphatic one component elastic polyurethane binder used for the realization of finish coat in playground areas, antitrauma floorings in combination with colored EPDM granules. His special formulation allows longer working life and excellent shock absorption characteristics; thanks also to the aliphatic nature, Athlon 199 AL is highly resistant to UV rays.

### APPEARANCE

Clear liquid.

### CHARACTERISTICS OF THE LIQUID PRODUCT

Characteristic	U.M.	Value	Tolerance
Specific weight	Kg/dm <sup>3</sup>	1,06	± 0,05
Dry mass residue	%	100	± 1
Viscosity at 23° C (ASTM D4889)	mPa.s	3300	± 200

### APPLICATION METHOD

The mixture can be prepared in a proper rubber granules mixer or with a cement mixer.

### LAYING INSTRUCTIONS

Tools	Thinner	Type of thinner	Cleaning tools
Plantomatic type spreader	Ready for use	-	DILA1
Manual with shims and aluminium straight edge	Ready for use	-	DILA1

### LAYING SURFACE

For thicknesses of up to 5 cm, ensure that the deck is compact and consistent, removing all traces of oil or grease (e.g. asphalt and cement) treated the deck with Athlon 199 AL diluted 1:1 using DILA1 or Epobase A; for thicknesses over 5 cm, the cast in situ rubber mat may be laid on a well compacted and primed stabilised deck.

**IMPORTANT:** resin surfaces are generally waterproof (non-draining) so that the deck must be sloped correctly to ensure rainwater runoff and prevent pooling. Works to correct the deck must be carried out before laying the final covering; if necessary please contact the Technical Office of Casali S.p.A.

### CONSUMPTION

The granule/Athlon 199 AL mixture proportions vary depending on the type of granules used; carry out some mixing trials to check the correct mixture percentages so as to avoid having too much or too little binder. For example, when using EPDM 1 – 4 mm granules, a ratio of 100 : 20 is recommended while in the case of EPDM 0.5 – 1.5 mm granules the recommended ratio is 80 : 20

**APPLICATION INSTRUCTIONS**

Ambient temperature: MIN 10°C - MAX 40°C  
 Ambient relative humidity: MIN 40% - MAX 90%  
 Laying surface temperature: MIN 10°C - MAX 40°C

**TIMES OF HARDENING**

At 23° C and 60 % R.H.	38 h
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Times refer to standard laboratory conditions. Hardening times are strongly influenced by weather conditions; high temperatures, direct sunshine and high humidity accelerate hardening; shadows, low temperatures, low humidity slow down hardening. In winter the product should be applied in the central and warmer hours of the day. Always ensure that the previous layer has hardened before applying the next coating.

**PACKAGING INSTRUCTIONS**

Colours available	Neutral.
Packaging	20 kg - 210 kg

**STORAGE INSTRUCTIONS**

Storage temperature:	MIN 18°C - MAX 40°C
Stability in the original package:	6 months

**IMPORTANT INSTRUCTIONS**

Athlon 199 AL is a hygrohardening resin that reticulates with humidity in the environment. Temperature changes and humidity effect the curing times of the product; in dry climates it may be necessary to dampen the deck surface to improve the grip of the binder. Check for rising dampness and/or infiltrations, if necessary contact the Technical Office of Casali S.p.A.

**SAFETY STANDARDS**

Please read the safety data sheet carefully before using this product.

*The data provided by these data sheets are approximate and the Company reserves the right to modify the same for technical reasons, without prior notice. The solutions proposed do not represent all the possible uses but are merely case studies deriving from Casali's installation experience and are therefore intended only for purposes of illustration. The user is exclusively responsible for the way the products illustrated are used, whether properly or improperly, for evaluating in advance the suitability or otherwise of the product for its requirements and exerting the utmost caution in handling chemical products. **Important: to ensure best colour uniformity of surface laid products, we recommend that you use materials from the same production lot as finishing layer. The Technical Office of Casali's Synthetics Division is at your complete disposal for any further specific information or explanations you may require (phone 071 9162095).***