

SPORTS SURFACES

DATA SHEET

ATHLON 45

Single-component elastic polyurethane binder for rubber granules

CHARACTERISTICS

Athlon 45 is a single-component polyurethane resin-based binder formulated to bind the rubber granules used for laying shockproof flooring and SBR mats cast in situ in order to lay Pavisint SL 75 – PM and Confosport PM systems.

APPEARANCE

Yellow-brown liquid.

CHARACTERISTICS OF THE LIQUID PRODUCT

Characteristic	U.M.	Value	Tolerance
Specific weight	Kg/dm ³	1,10	± 0,1
Dry mass residue	%	100	± 3
Dry volume residue	%	100	± 3
Brookfield viscosity (with Brookfield viscometer rotor no. 4, speed 5)	cPs	4500	± 500

APPLICATION METHOD

Mix with a specific mixer for rubber granules or 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 45 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 45 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 SBR 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 10° C and R.H. of 50 %	48 h
At 10° C and R.H. of 90 %	27 h
At 15° C and R.H. of 70 %	25 h
At 20° C and R.H. of 50 %	29 h
At 40° C and R.H. of 30 %	22 h

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 - 215 kg

STORAGE INSTRUCTIONS

Storage temperature:	MIN 10°C - MAX 40°C
Stability in the original package:	6 months

IMPORTANT INSTRUCTIONS

Athlon 45 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).***