

# Active Play AS H 8009

## PRODUCT TECHNICAL SPECIFICATION

<b>NUMBER</b>	KR SHP/002/03
<b>DATE</b>	19.12.2025
<b>CHEMICAL NAME</b>	Prepolymer based on diphenylmethane diisocyanate (MDI).
<b>TECHNICAL REQUIREMENTS</b>	<p>NCO content, % (m/m) ..... <b>10.0 – 12.0</b>  <small>(PN-EN 1242:2013-06)</small></p> <p>Dynamic viscosity at 25°C, mPas ..... <b>2000 – 3500</b>  <small>(ASTM D4878-23, method A)</small></p> <p>Appearance at 25°C ..... <b>liquid, colorless to amber yellow</b></p>
<b>INFORMATIVE DATA*</b>	<p>Density at 25°C, g/ml..... <b>1.08 – 1.10</b>  <small>(PN-EN ISO 2811-1:2023-03)</small></p>

\*This information data does not constitute technical requirements and cannot be the basis for a complaint.

## APPLICATION

The one-component polyurethane prepolymer adhesive with good bond stiffness while maintaining flexibility. It does not contain volatile organic solvents. This adhesive is used to create surfaces for playgrounds, fitness centers, and gyms using SBR and EPDM rubber granules.

## RECOMMENDED PROCESSING CONDITIONS

Adhesive consumption ranges from 5 to 20%, depending on the amount of granulate and the SBR or EPDM fraction used. Higher temperatures and humidity shorten the curing time, but too low a temperature can significantly prolong the curing time. To accelerate the curing process, spraying a small amount of water, a catalyst, or solutions of both can be used. Dry rubber granulates, such as SBR or EPDM, should be thoroughly mixed with the adhesive in a suitable mixer. The quality of the application depends on the correct selection of granulate. Ensure that the rubber granules are fully compatible with the adhesive. Using the wrong granulates will limit or even prevent the adhesive from curing. Application properties depend on the particle size of the rubber granulates (fractions), the composition, and the amount of one-component polyurethane adhesive.

## COMMENTS

Polyurethane adhesives are made from aromatic isocyanates based on diphenylmethane diisocyanate (MDI), which contain a structure of unsaturated (aromatic) bonds. Their film is not resistant to UV light and may cause color change when using light-colored EPDM granules. This behavior is typical of all adhesives of this type. It should be noted that EPDM granules also affect color stability.

When installing playground surfaces or outdoor sports surfaces, ensure appropriate application conditions. Do not begin work without first checking the weather forecast.

Do not start work in the following cases:

- when the substrate temperature is less than 3°C below the current dew point,
- when the ambient temperature exceeds 30°C,
- immediately after precipitation (rain, snow, or hail),
- or during precipitation, or when the weather forecast indicates a probability of precipitation within 5 hours after completion of the work. It is unacceptable to lay the surface when there is even a small amount of water on the surface, such as puddles, ice remnants, frost, or snow. Mixing the adhesive with water will cause it to foam and lose its performance properties.

Drums of supercooled adhesive should be heated evenly, without using a point heat source. High heating temperatures will cause a loss of performance properties. We recommend using heating blankets or a heating chamber.

## PACKAGING

ACTIVE PLAY AS H 8009 is delivered in metal drums of 216 l, pallet containers – IBCs of 1000 l or tank trucks.

## STORAGE

Store in a dry place at a temperature between 10 and 30°C. Protect from moisture and direct sunlight. The product should be stored in tightly closed containers. ACTIVE PLAY AS H 8009 reacts with air humidity. It is recommended to tightly close containers after use. Use the product as soon as possible after opening.

## SHELF LIFE

Shelf life in original manufacturer's packaging, stored in recommended conditions is 6 months from the date of production. After this period, it may be used after checking the compliance of parameters with technical requirements and performing application tests.

## TRANSPORTATION

Recommended delivery temperature is 10 to 30°C.

**This product is not regulated for carriage according to ADR/RID, ADN, IMDG, ICAO/IATA.**

## CLASSIFICATION AND LABELLING

This technical specification is applicable only if accompanied by the Safety Data Sheet in force. Pursuant to statutory requirements, only the Safety Data Sheet includes updated safety information.

The information contained herein is provided in good faith, based on our state of the art knowledge and experience. We reserve the right to amend this Technical Specification as a result of technological progress and product development by the manufacturer.

This product is intended for the purposes specified herein, for industrial and professional use. To use the product for purposes other than indicated herein, please contact PCC ROKITA SA for consultation sending an e-mail to: [prepolimery@pcc.eu](mailto:prepolimery@pcc.eu).

We cannot assume any liability for the use and application of our products, technical assistance and information provided (whether verbal, written or by way of product evaluations), including any suggested formulations and recommendations.

Therefore, it is imperative that you test our products, technical assistance and information provided to determine to your own satisfaction whether they are suitable for your needs, production, your intended uses and applications. Such analysis adopted to the conditions of the use and application should include at least application tests, technical feasibility of the suggested solutions, taking into account safety requirements, health and environmental issues.

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