

EMANAT® 2535
PRODUCT DATA SHEET**DESCRIPTION**

Emanat® 2535 is used for binding (gluing) rubber or rubber (EPDM) granulate (crumbs) when constructing seamless injury-proof coatings for sports playgrounds and children's playgrounds, running tracks paths of open planar physical education and sports facilities.

DEFINITION

Emanat® 2535 is a diphenyl methane diisocyanate (MDI) based composition.

One-component polyurethane binder (glue) for rubber and caoutchouc crumbs.

Does not contain organic solvents. In combination with rubber or crumb rubber (EPDM), it forms a seamless, elastic, rough coating that is resistant to mechanical wear and shock loads and prevents slipping. Due to its high porosity, the coating based on a binder and crumb rubber allows water to pass through well and always remains dry.

Attention!

Emanat® 2535 is not a light-resistant material. Over time, the surface of the coating may acquire a uniform brownish-yellow tint from exposure to sunlight. A change in shade is not a sign of destruction, loss of strength or durability. EMANAT 2535 is recommended to be used in combination with rubber or EPDM granules of darker shades, which will visually "mask" the yellowing of the glue.

Properties	Value
Appearance:	Transparent yellow liquid. Opalescence is allowed.
Content of non-volatile substances	at least 99%
Dynamic viscosity (at +23°C)	≤ 4000 mPa.s
Coating curing time (at +20°C and air RH 70%)	pedestrian loads – ≥ 24 h transport loads – ≥ 3-5 days
Elongation at break	at least 20%
Tensile strength	not less than 0.2 N/mm ²
Recommended fractional composition of filler	from 2.0 mm to 6.0 mm
Optimal binder/filler ratio (for layer thickness ≈10 mm)	1.6 ÷ 1.8 kg of binder per 8 kg of black cut. crumbs (additionally ≈0.35 kg of inorganic pigment -1.6 ÷ 1.8 kg of binder per 10 kg of EPDM crumbs
Package	225 kg Drums

Recommendations for use**Requirements for properties and preparation of substrates**

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The mechanical load-bearing properties of bases, substrates and underlying layers must correspond to the conditions of long-term operation of the finished coating or product.

When installing a coating that is not adhesively connected to the base or substrate (for example, covering an outdoor playground), the sand and gravel preparation (underlying layer) must be carefully planned and compacted to prevent its possible erosion by water penetrating through the coating (precipitation, melting snow, ice). For this purpose, sand and gravel preparation is usually covered with film or non-woven separating materials that prevent erosion.

When installing coatings on rigid substrates, when a reliable adhesive bond between the coating and the substrate is required, the properties and preparation of the substrates must comply with the requirements of current regulatory documents.

Attention!

The choice of primer is determined by the coating system and depends on the specific application conditions. For additional information, please contact the technical and commercial representatives of Huntsman EMA.

Requirements for conditions of use

Optimum temperature of the material, base surface and ambient air in the work area: from +10°C to +25°C. Relative humidity (RH): no more than 75%

Attention!

The temperature of the base surface must be at least 3°C above the dew point determined for the given conditions and not decrease both during the application of the working mixture of binder and crumb rubber, and during the entire time required for complete polymerization of the coating layer.

Significant temperature changes and excess air humidity negatively affect the polymerization mode and worsen the mechanical properties of the coating layer, leading to the formation of defects.

Mode of application

In a horizontal mortar mixer, thoroughly mix the rubber crumbs with the required amount of dry pigment. After uniform distribution of the pigment in the mass, add the required amount of binder and mix the working solution in the mixer until a uniformly colored mass is obtained.

Spread the prepared working mixture evenly over the surface of the base in a layer slightly exceeding the design thickness of the coating.

After finishing work, immediately clean the tool using organic solvents (xylene, solvent, acetone, butyl acetate). Cured material can only be removed mechanically.

Hygienic characteristics

After complete curing, the coating based on the binder is safe and is approved for use in public, industrial and commercial facilities.

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Security measures

Emanat 2535 does not contain flammable components. When carrying out work, it is prohibited to smoke, use faulty electrical equipment, or open fire.

When working with the material, personnel must be provided with protective clothing, safety glasses and gloves and instructed in safety measures.

When working with the material indoors, ensure sufficient forced ventilation. Avoid contact of binder components with exposed skin, eyes and mouth. If components of the binder get into your eyes, rinse them with plenty of water and consult a doctor immediately. If the components of the binder get on open areas of the skin, it is necessary to remove the contamination with a cotton swab and wash the contaminated area with warm water and soap.

Disposal of used packaging, solid and liquid waste is carried out in accordance with the requirements of current legislation.

Transportation and Storage

Transportation of binder is carried out by all types of covered transport. Transportation and storage should be carried out at temperatures not lower than +5°C and not higher than +30°C.

A possible increase in viscosity and partial crystallization (turbidity) of the binder at low temperatures (below +5°C) does not lead to an irreversible change in the properties of the binder and a deterioration in quality.

In case of transportation or storage at low temperatures, the binder should be kept in a warm, dry room for 24 hours before use, or forced heating of containers with the binder should be used using heat guns. Heat guns must be positioned so that the flow of heated air ensures uniform heating.

Store open packaging with remaining binder for later use.

PROHIBITED!

The established shelf life of the material is 12 months (if stored in a dry, heated room in closed original packaging).

After the expiration date, the material is subject to testing for compliance with the requirements of the current specifications and, if its suitability is confirmed, can be used for its intended purpose.