



MAXURETHANE BOND

POLYURETHANE ADHESIVE FOR BONDING OF MAXURETHANE® COMFORT ROLL ELASTOMERIC BLANKET AND GENERAL CONSTRUCTION ELEMENTS



DESCRIPTION

MAXURETHANE® BOND is a two-component, solvent-free, polyurethane-based adhesive suitable for bonding of the **MAXURETHANE® COMFORT ROLL** elastic blanket as part of the **MAXURETHANE® COMFORT** comfortable flooring system, and as an adhesive for other construction elements in general.

APPLICATION FIELDS

- Adhesive and bonding agent for **MAXURETHANE® COMFORT ROLL** as a first step in the **MAXURETHANE® COMFORT** comfortable flooring system.
- Adhesive for artificial grass, linoleum, parquet, ceramic tiles, etc.

ADVANTAGES

- Excellent adhesion on concrete, cement mortars, wood, metal, etc.
- High covering capacity and excellent yields.
- Flexible, suitable for supports exposed to movement or thermal expansion.
- Non-flammable, solvent-free. Suitable for applications with poor ventilation. Environmentally friendly.
- Improves surface cohesion of substrate.

APPLICATION METHOD

Substrate preparation

The concrete substrate must be solid and sound, without poorly adhered parts, superficial grouts and as uniform as possible. The minimum tensile strength must be 1,5 N/mm². For the preparation of the concrete surface, sanding or roughing treatments will be used. The recommended degree of concrete preparation is CSP 2 – CSP 4, according to the classification for *International*

Concrete Repair Institute. When concrete substrate has large surface regularity, it will be necessary to regularize it by self-levelling mortars from the **MAXLEVEL®** range, cementitious mortars or resin mortars suitable for this use.

Cracks, defects and cavities deeper than 10 mm must be repaired with **MAXROAD®** (Technical Bulletin No. 27).

For new concretes, observe at least 28 days for curing. A certain degree of humidity is allowed in the substrate, but it must be less than 8 % and no rising dampness.

Surface must be clean, free of paints, efflorescence, loose particles, greases, oils, release agents, dust, etc., or other substances that could affect adhesion.

Mixing

MAXURETHANE® BOND is supplied in two components pre-weigh sets. Pour the Component A resin into a clean container and add the Component B hardener. Mix the two components manually. To ensure the total reaction of both components, make sure to pour the entirety of Component B over Component A. Mixing can be done manually or preferably with a drill at low revolutions (max. 300-400 rpm), until a homogeneous product in colour and appearance is obtained. Avoid excessive mixing time and high speed that heats the mix and/or introduces air during mixing. Check the technical data table for the "pot life" (45 min at 20°C).

Application

Apply **MAXURETHANE® BOND** by toothed trowel (2-3 mm), spreading it over the entire surface in a thickness of about 1,5 to 2,0 mm, filling gaps and pores. Pay special attention to the corners with walls, outstanding points and edges of the application areas.

Laying of the **MAXURETHANE® COMFORT ROLL** elastic blanket must be carried out within the open time for **MAXURETHANE® BOND** (45 min at 20°C) and following the instructions given in the respective Technical Bulletin.

Application conditions

Avoid applications if contact with water, moisture, condensation, dew, etc., is expected during the first 24 hours. The optimal working temperature range is from 10°C to 30°C. Do not apply with substrate and/or ambient temperatures below or if lower temperatures are expected within 24 hours of application. Do not apply on frost or frozen surfaces. The temperature for substrate and environment shall be at least 3°C higher than dew point.

Do not apply when the relative humidity is above 85 %. Measure relative humidity and dew point in applications close to marine environment. If the temperature is lower or the relative humidity is higher than the values indicated, the appropriate conditions must be created by means of hot air and its renewal.

Applications above 35°C lead problems of excess reactivity and heat release, as well as a great reduction in the pot life of the mixture. At temperatures above 35°C, avoid applying with direct exposure to the sun.

Curing

Allow a minimum curing from 8 to 10 hours before opening to traffic on the **MAXURETHANE® COMFORT ROLL** elastic blanket bonded with **MAXURETHANE® BOND**.

Cleaning

All tools and equipment must be cleaned with **MAXSOLVENT®** immediately after use. Once cured, it can only be removed by mechanical means.

CONSUMPTION

The estimated consumption of **MAXURETHANE® BOND** is 1,5-2,0 kg/m².

Consumption may vary depending on texture, porosity, substrate conditions, as well as the application method. Perform an on-site test to find out its exact value.

IMPORTANT INDICATIONS

- Do not apply on substrates subjected to humidity due to raising dampness or indirect hydrostatic pressure conditions. The surface

moisture of the substrate must be less than 8 %.

- Allow sufficient time for the substrate to dry after rain, dew, condensation, or other inclement weather, as well as after cleaning the substrate.
- Observe the minimum and maximum recommended consumptions.
- Observe the open time for bonding before the laying of **MAXURETHANE® COMFORT ROLL**.
- Do not add water, solvent or other compounds.
- For any applications not specified in this Technical Bulletin or additional information, please consult with the Technical Department.

PACKAGING

MAXURETHANE® BOND is supplied in pre-weight sets of 25 kg. (A: 22,5 kg; B: 2,5 kg).

STORAGE

Twelve months in its original closed and undamaged packaging. Store in a dry place, protected from moisture, frost and direct exposure to the sun, with temperatures of 5°C to 35°C.

Prolonged storage below the indicated temperatures can cause the crystallization of the product and/or increase in its viscosity. In this case, to restore the product to its normal conditions, it must be heated to a moderate temperature while it is shaken gently and regularly.

SAFETY AND HEALTH

MAXURETHANE® BOND is not a toxic product, but it is abrasive in its composition. Avoid contact with skin and eyes, as well as inhalation of dust. Use gloves and safety glasses when handling, mixing and applying the product. In case of contact with the skin, wash the affected area with soap and water. In case of splashes or contact in the eyes, wash with plenty of clean water without scrubbing. If irritation persists, go to the medical service.

Consult the Safety Data Sheet **MAXURETHANE® BOND**.

The disposal of the product and its packaging must be carried out in accordance with current legislation and is the responsibility of the final consumer of the product.

MAXURETHANE® COMFORT BOND



TECHNICAL DATA

Product characteristics	
CE Marking, EN 12004-1	
Description: Reactive resin adhesive (R1)	
Intended uses: Bonding of MAXURETHANE® COMFORT ROLL elastic blanket and general construction elements.	
General appearance and colour A + B	Light green homogeneous paste
A:B Mixing ratio (by weigh)	22,5 : 2,5
Bulk density for fresh mortar A+B, (g/cm ³)	1,24 ± 0,1
Solid content, (%)	100
Application and curing conditions	
Temperature / Relative Humidity for ambient and substrate, (°C / %)	10-35 / < 85
Pot life at 20°C (min)	45
Initial and final setting time at 20°C (min)	180-360
Curing time:	
• Pedestrian traffic (hours)	24
• Total curing time (days)	7
Characteristics for cured product	
Adhesion on concrete at 28 days, (MPa)	> 1,5
Initial shear adhesion, EN 12004-2 (N/mm ²)	≥ 2,0
Shear adhesion after immersion in water, EN 12004-2 (N/mm ²)	≥ 2,0
Open time adhesion at 20 min, EN 12004-2 (N/mm ²)	≥ 0,5
Reaction to fire	Class E
Consumption*	
Consumption per layer, (kg/m ²)	1,5-2,0

* Consumption may vary depending on the characteristics of the substrate, as well as the application method. Perform an on-site test to determine exact consumption.

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®, S.A.U.** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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