



# MAXFLOOR® SPORT SYSTEM

## PROTECTIVE AND DECORATIVE SYSTEM FOR FINISHING SPORT AREAS



### DESCRIPTION

**MAXFLOOR® SPORT SYSTEM** is a resin-based flooring system for sport areas. It is applied on concrete slabs or asphalt pavements with low maintenance and long lasting. The system is composed of:

- Primer coat:

*Application on concrete surface:* **MAXEPOX® PRIMER-W** is a two-component, water-based epoxy formulation, designed as primer on concrete substrates. Substrate may contain some surface moisture but not free standing water (maximum surface moisture content 10%).

*Application on asphalt pavements:* **MAXFLOOR® SPORT-PA** is a one-component thick synthetic mortar with either 0,6 or 1,0 mm aggregate size, to be applied as primer on asphalt pavements. It allows also to be used for patching and repairing cavities on asphalt substrates, as well as to level the planimetry of the surface if necessary.

- Finishing layers

**MAXFLOOR® SPORT-F** is a two-component acrylic-epoxy flooring with 0,0 mm filler for finishing the system. These layers provide the colour, durability and the abrasion resistance of the system.

### APPLICATIONS

- Tennis and paddle courts, high-performance sports areas, etc.
- Basketball, football courts, etc either for indoor or outdoor.
- Finishing and sports marking on playgrounds, school yards, etc.
- Outdoor floors on theme parks, pedestrian streets, pathways, etc.

### ADVANTAJES

- Good resistance to weathering and UV rays. Stable and durable colours.
- Allows to be used right after raining.

- Good abrasion resistance against frequent pedestrian traffic and occasional light wheeled traffic.
- High adhesion on concrete and asphalt agglomerate substrates.
- Low maintenance rate.
- Environmentally friendly: water-based product without solvents. Non-toxic or flammable.

## APPLICATION INSTRUCTION

### Surface preparation

Surface must be structurally sound, firm, without cement laitance and badly adhered parts, and as uniform as possible, levelled, with slopes suitable for rainwater runoff evacuation, without depressions that may lead to puddles preferably. There should be no rising dump. Expansion joints and active fissures, once cleaned, will be treated with a suitable sealant from the **MAXFLEX®** range.

Concrete: It must be a cohesive and compact substrate with a minimum tensile strength of 1,5 MPa. For the preparation of the concrete surface, perform a dry surface roughing to remove laitance and achieve an open pore texture by using an industrial polisher equipped with a roughing disk and a vacuum cleaner, making the roughing in two 90° cross passes, roughing a small and uniform thickness in each. Finally, vacuum all dust and the loose particles.

Substrate must be clean and free of paints, coatings, efflorescence, loose particles, grease, oil, curing agents, form release agents, dust... or any other contaminants that may affect to adhesion. Cracks and any other defects will be repaired with **MAXROAD®** (Technical Bulletin No. 27).

Asphalt pavements: It must be properly compacted, with the density and cohesion standardized in PG3 for the type of mixture used. The agglomerate must be sound, clean, dry, free of dust or loose particles, superficial laitance, greases, oils or other contaminants.

All expansion joints and cracks must be treated appropriately since in some cases these joints can work as expansion joints so that can affect the final performance of the flooring system.

For small patching/ repairing works (3 – 25 mm) can be used **MAXFLOOR® SPORT-PA** mixing with silica sand (size < 1.0 mm) in ratio 1:1.

Big thickness repairs or cavities (> 25 mm) can be repaired with **MAXPATCH® ASPHALT** (Technical Bulletin No. 93), allowing a curing time of at least 7 days.

### Mixing

The primer for concrete **MAXEPOX® PRIMER-W** is supplied as a pre-weighed two-component set.

Firstly pre-mix the components separately, and then pour fully the hardener component B into the resin component A. Mix using a low speed drill (300-400 rpm. maximum), for 2-3 minutes until achieving a homogeneous product in colour and appearance. Do not mix for prolonged period nor use high-speed mixer, which may heat the mixture or introduce air bubbles.

The primer for asphalt pavements, **MAXFLOOR® SPORT-PA**, is supplied as a one-component mortar ready to use. Before application, stir the content of the packaging with a clean tool or preferably by mechanical means such as a slow speed electric drill (300-400 rpm) fitted with a disc mixer, until achieving a homogeneous product. Depending on temperature conditions, for a better workability **MAXFLOOR® SPORT-PA** allows to be diluted up to 5% water (with 1,0 – 1,5 litres of water per drum). Mix the water with mechanical mixer.

**MAXFLOOR® SPORT-F** is supplied in two-component pre-weight set. Stir each component separately in its container, and then mix both in the base package by mechanical means such as a slow speed electric drill (300-400 rpm) fitted with a disc mixer, until achieving a homogeneous product. Depending on temperature conditions, for a better workability **MAXFLOOR® SPORT-F** allows to be diluted up to 5% water (1,0 litres of water per drum). Mix the water with mechanical mixer.

### Application

Apply **MAXEPOX® PRIMER-W** by brush or roller with consumption 0,20 – 0,30 kg/m<sup>2</sup>. Wait to be perfectly dry and tack-free before the application of next layer, between 12 – 24 hours depending on temperature.

Apply **MAXFLOOR® SPORT-PA** by rubber squeegee. Wait to be perfectly dry before the application of next layer, 12 -24 hours approximately depending on temperature.

Once primers **MAXEPOX® PRIMER-W** or **MAXFLOOR® SPORT-PA** are perfectly dry, spread **MAXFLOOR® SPORT-F** by a rubber squeegee on the entire surface. Then, finish the surface with a short hair roller in order to achieve a smooth and homogeneous appearance. Apply second coat **MAXFLOOR® SPORT-F** once the first one is dry, between 6 – 12 hours depending on temperature.

### Application conditions

The optimum working temperatures range is from 10°C to 30°C. Do not apply if the ambient or substrate temperature is below 8°C, or if there will be this range of temperatures within the next 24 hours. Do not apply on frozen or frosty substrates.

The substrate and ambient temperatures must be at

least 3°C higher than the dew point. Do not apply where R.H is higher than 85%.

Avoid applications if contact with water, moisture, condensation, dew, etc., is expected within the first 24 hours.

The humidity of the substrate must be lower than 4% for **MAXFLOOR® SPORT-PA** and lower than 10% for **MAXEPOX® PRIMER-W**. Concrete slabs must be waterproofed at the bottom to avoid negative hydrostatic pressure.

## Curing

Allow a curing time of at least 24 hours for pedestrian traffic and 72 hours for total curing and putting-into full service.

This curing time is at average 20 °C and 50% R.H. Applications at lower temperature, higher humidity and/or poor ventilation conditions require longer curing time.

## Cleaning

All tools and equipment must be cleaned immediately with water after use. Once product cures, this can only be removed by mechanical means.

## CONSUMPTION

The consumption per product is the following:

### Adhesion layer:

One coat of **MAXEPOX® PRIMER-W** with 0,3 kg/m<sup>2</sup>.

One coat of **MAXFLOOR® SPORT-PA** with 1,0 to 1,5 kg/m<sup>2</sup> depending on asphalt porosity.

### Finishing layer:

Two coats of **MAXFLOOR® SPORT-F** with a consumption from 0,25 - 0,30 kg/m<sup>2</sup> each (0,5 – 0,6 kg/m<sup>2</sup> totally).

### Marking and signposting

Average consumption for marking and signposting with **MAXFLOOR® SPORT-F** is 0,2-0,25 kg/m<sup>2</sup> per coat.

## IMPORTANT INDICATIONS

- Do not apply on substrates subject to rising damp or negative water pressure.
- Allow enough time to dry the substrate after rain, contact with water, damp, etc., as well as after cleaning surface.
- Allow new concrete and cement mortars to cure 28 days before coating.

- Do not exceed thickness or consumption per coat recommended.
- Asphalt pavements must be perfectly sound and consolidated before application.
- Do not add solvents, thinners or other non-specified compounds and nor exceed the recommended ratio of dilution with water.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

## PACKAGING

**MAXEPOX® PRIMER-W** is supplied in 10 and 20 kg pre-weighed sets.

**MAXFLOOR® SPORT-PA** is supplied in 30 kg drum. Available in grey, red, green, yellow and black colour.

**MAXFLOOR® SPORT-F** is supplied in 20 kg sets. Available in grey, red, black, white, yellow, green and blue colour. Other colours under request.

## SAFETY AND HEALTH

**MAXEPOX® PRIMER-W, MAXFLOOR® SPORT-PA** and **MAXFLOOR® SPORT-F** are not toxic products, but skin and eye contact must be avoided. Use rubber gloves and safety goggles when handling, mixing and applying. In case of skin contact, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance. If swallowed seek immediately medical attention, do not induce vomiting.

Consult the Material Safety Data Sheet for each product.

Disposal of the product and its empty packaging should be carried out according to the current official regulations and it is the responsibility of the final user of the product.

## STORAGE

Twelve months in its unopened and undamaged original packaging. Store in a cool, dry and covered place, protected from moisture, freezing and direct sunlight, at temperatures from 5°C to 40°C.

Prolonged storage below the recommended temperatures may cause crystallization and an increment of viscosity for products. In such a case, proceed to thaw it by slowly heating it to a moderate temperature while gently stirring in order to return the product to its original appearance and viscosity.

## TECHNICAL DATA

Products characteristics		
Components proportions	<b>MAXEPOX® PRIMER-W</b> <b>MAXFLOOR® SPORT-PA</b> <b>MAXFLOOR® SPORT-F</b>	5:1 One component 18:2
Characteristics of the cured system		
Approximated thickness, (mm)	System on concrete System on agglomerate Cushion	1,0 – 1,3 1,2 – 1,5 Thickness increase in 0,3 mm per layer
Adhesion on concrete at 28 days, EN 1542 (MPa)		≥ 1,5
Wearing resistance to dry conditions (weight loss in grams) Grinding CS-17, load 1000 g, 1000 cycles		0,15
Wearing resistance to wet conditions (weight loss in grams) Grinding CS-17, immersion in water 24 h, load 500 g, 1000 cycles		1,50
Slip/Skid resistance. R <sub>d</sub> ; Class	Dry Wet	> 75; Class 3 > 60; Class 3

The characteristics of the finished systems are measured under normal curing conditions. Thus, these benefits are obtained for complete systems, being unable to determine their change in those cases that involve the elimination and / or replacement of any of the layers that compose it.

## 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 authorized 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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