

PRODUCT DATA SHEET

Pulastic® Multicoat

2-part polyurethane matt coloured finish coat

DESCRIPTION

Pulastic Multicoat is a coloured two part water-based, very low VOC, polyurethane matt finish coat.

USES

Pulastic Coating 221/W is a durable, high quality coloured coating that meets the most stringent V.O.C. regulations in Europe and the USA known today. The product is mainly used for the installation of seamless sports flooring systems. We recommend that the manufacturer is consulted regarding alternative applications other than the standard sports flooring systems. This water based coating offers the optimum friction properties for sports, has a long-term very mat appearance, a high abrasion resistance, a high colour fastness and a high resistance against the usual cleaning agents. Moreover the coating has good bonding properties and is permanently flexible. The balanced viscosity liquid consistency assures a uniform texture all over the area when roller applied. The nature of the product requires (manufacturer) trained specialists to execute the application.

CHARACTERISTICS / ADVANTAGES

Waterbased
Very low odour
Good UV resistance, non-yellowing
Easy to clean

PRODUCT INFORMATION

Packaging	Part A: 8.5 kg Part B: 1.5 kg Part A+B: 10 kg ready to mix units
Shelf life	6 months from date of production for the A part and 12 months from date of production of the B part, if stored properly in original, unopened and undamaged sealed packaging.
Storage conditions	in dry conditions at temperatures between +5°C and +30°C.

Colour	16 as per standard colour card
Appearance and colour	Pulastic Multicoat is matt after final curing. Available in various colour shades and as substrates for local tinting.
Density	Part A: ~ 1.33 kg/l Part B: ~ 1.13 kg/l Mixed Resin: ~ 1.18 kg/l (diluted with 5 % Water) All Density values at +23°C.

TECHNICAL INFORMATION

Chemical resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.			
Consumption	Approximately 0,13 kg/m ² /layer This figure is theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. Lower consumption can cause roller marks, gloss differences and irregular surface structure, higher consumption result in water retention.			
Ambient air temperature	+10°C min. / +30°C max.			
Relative air humidity	75% max. During curing the humidity should not exceed 70 % max. Adequate fresh air ventilation must be provided to remove the excess moisture from the curing product.			
Dew point	Beware of condensation! The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.			
Substrate temperature	+10°C min. / +30°C max.			
Pot Life	Temperature	Time		
	+10°C	~ 80 minutes		
	+20°C	~ 60 minutes		
	+30°C	~ 40 minutes		
Caution: end of potlife is not noticeable				
Curing time	Temperature	Foot traffic	Light Traffic	Full Cure
	+10°C	~ 30 hours	~ 48 hours	~ 6 days
	+20°C	~ 16 hours	~ 24 hours	~ 4 days
	+30°C	~ 12 hours	~ 18 hours	~ 3 days

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER INFORMATION

Freshly applied PULASTIC Multicoat must be protected from damp, condensation and water for at least 7 days (+20°C).

Unevenness of substrates as well as inclusions of dirt cannot be covered by thin sealers coats. Therefore substrate and adjacent areas must be cleaned thoroughly prior to application.

Tools

Electric drill, mixing-blade, brushes and short pilled rollers 10 up to 70 cm for surface area – amount depending on size of floor). Roller frames and telescopic extension handles, tape and spatula. Plastic sheeting

for placement of wet rollers.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and sur-

face treatments, etc. Pull-off strength must be not less than 1.5 N/mm². If in doubt, apply a test area first.

SUBSTRATE PREPARATION

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

MIXING

Part A : part B = 85: 15 (by weight)

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved.

To achieve a smoother surface 5 % water can be added.

After adding the water mix continuously for 1 minute. Wait one minute and then mix it up again for one minute.

The adding of water must be the same in every mix, if not it could slightly influence the paleness and the texture.

Check the mixing result and the absence of lumps or agglomerates on a mixing blade.

To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.

Pulastic Multicoat must be thoroughly mixed using an electric mixer or equivalent.

APPLICATION

Prior to application confirm relative air humidity and dew point!

During installation and curing of the PULASTIC Multicoat it is of major importance to determine exactly the degree of humidity of the working area. Too humid conditions during installation and curing may result in colour deviation, inconsistent appearance of the floor ("cloudy effect") and reduced strength of the coating layer.

The appearances mentioned above can be avoided if the dew point of the room is determined exactly, before starting the coating application. The dew point determines at what temperature, condensation will take place on the floor surface. Condensation of humidity must be avoided at all times for two reasons: 1) At a too high humidity in the room the water in the coating will have great difficulties evaporating, or will not evaporate at all. The speed of evaporation of water in the PULASTIC Multicoat is directly related to difference between the dew point and the floor-temperature. The closer the floor-temperature is to the dew point, the slower the coating will dry. Even if the floor-temperature is equal to the dew point, the coating will

stop drying completely.

2) Curing of a 2-component, waterborne PU system exists of 2 processes. First the evaporating of the water. Secondly curing of the A- with the B-component. Important to note that the B-component also reacts with water. If evaporation takes too long, a relatively too big part of the B-component will react with the water of the coating and reaction between A and B component may be insufficient, resulting in the deviations mentioned above such as cloudy effects in the floor and/or lower coating abrasion resistance.

Basically the following working conditions must be respected*:

Temperature of material and working area: 10°C-30°C.
Temperature of sub floor: minimal 4°C above the Dew-point.

Air humidity: max 75%.

If ventilation possibilities are only very limited, the conditions are even more critical and must be respected as follows*:

Temperature of material and working area: 10°- 30°C.
Temperature of sub floor: minimal 5°C above the Dew-point.

Air humidity: max 70%.

*During Application and Curing!

Always consult the dew point table (available on request) prior to application

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The

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SPORTS FLOORING

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user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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