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LIQUID COMPONENTS

Polyurethane binders and
coating products
for optimal floor surfaces

polytan

WE MAKE SPORT.

POLYURETHANE COMPONENTS MADE BY MELOS.

Tailored solutions for maximum
adhesion, elasticity and efficiency.

From priming to sealing: Melos supplies the right polyurethane components for all phases of sports and leisure flooring installation. Our products combine adhesion, elasticity and durability – ensuring surfaces that are both technically and visually impressive.

From reliable adhesive primers for asphalt and concrete to high-performance binders for EPDM granulate, wear-resistant coatings/spray coatings, sealants, line colours, special adhesives and VOC-free cleaners, Melos offers a complete portfolio

of components. Our polyurethane range supports all common sports and leisure floor coverings – including spray coatings (type A), 1- and 2-layer EPDM loose-fill coverings (type B/C), poured coverings (type D), solid plastic coverings (type E) and EPDM mulch systems.

Our 1K and 2K products are optimised for the requirements on the construction site: balanced viscosities and pot lives facilitate application, while MDI-based or combined MDI/TDI formulations ensure high adhesive strength and lasting elasticity. VOC-free

cleaners help to ensure clean tools and efficient workflows.

In combination with our premium EPDM granules, this results in durable, resilient and visually uniform surfaces – from running tracks and playgrounds to decorative flooring solutions. Thanks to complete system compatibility from a single source, installers benefit from simple logistics, smooth installation and long-lasting, reliable performance. All components, one contact, one result: quality that lasts.



PRIMER

	Pot life [h]	Curing Time [h]	Viscosity [mPas] @ 23 °C	Density [g/cm ³]	Packaging
PC 11-010	is a solvent free, single-component polyurethane primer. It is designed for the adhesion between asphalt, concrete and elastic layers and between elastic layers (retopping).				
	–	4–6	300 ±70	1.00	25 kg, 200 kg
PC 11-020	is a solvent-free, two-component polyurethane primer. It shows an excellent adhesion to concrete and screed. PC 11-020 has a very good acid- and alkali resistance. It is possible, but not necessary, to add solvent.				
	30	2	Part A 250 ±100 Part B 140 ±20	Part A 1.00 Part B 1.22	9 kg

ADHESIVE

	Pot life [h]	Curing Time [h]	Density [g/cm ³]	Packaging
PC 21-010	is a solvent-free, single-component polyurethane-based adhesive. PC 21-010 is used to glue down artificial turf systems. PC 21-010 cures with moisture.			
	0.5	4–6	1.07	17 kg
PC 21-020	is a solvent-free, two-component polyurethane-based adhesive. PC 21-020 is used to adhere rubber granules and foam mats to concrete, wood and asphalt.			
	0.5	4–6	Part A 1.60 Part B 1.22	Part A: 12 kg Part B: 1.7 kg
PC 21-030	is a solvent-free, two-component polyurethane-based adhesive. PC 21-030 is used to adhere backing tapes to artificial turf systems.			
	0.75	4–6	Part A 1.07 Part B 1.22	Part A: 12 kg Part B: 1.7 kg



BINDER

		Pot life [h]	Curing Time [h]	Viscosity [mPas] @ 23 °C	Density [g/cm ³]	Packaging
PC 31-010	is a solvent-free, single-component MDI-based polyurethane binder. It cures with moisture and is designed for the production of elastic rubber granule base layers for sports surfaces. It shows an excellent adhesion to SBR and EPDM rubber.	–	10–12	2900 ±700	1.10	20 kg, 210 kg, 1050 kg
PC 31-010 GTN	is a solvent-free, single-component MDI-based polyurethane binder. PC 31-010 GTN consists of 20% bio-based raw materials. It cures with moisture and is designed for the production of elastic rubber granule base layers for sports surfaces. It shows an excellent adhesion to SBR and EPDM rubber.	–	10–12	2400 ±700	1.10	20 kg, 210 kg, 1050 kg
PC 31-020	is a single-component, solvent free MDI-based polyurethane prepolymer. PC 31-020 is designed for the production of elastic rubber granule surfaces at children playgrounds.	–	12–14	2600 ±500	1.10	20 kg, 210 kg
PC 31-033	is a one component, medium viscosity, and solvent free polyurethane binder with a high colour fastness. PC 31-033 is designed to produce elastic fall protection surfaces where light fast properties are required.	–	25	3800 ±800	1.10	20 kg, 210 kg
PC 31-050	is a one component, solvent less MDI/TDI-based prepolymer with low viscosity. PC 31-050 has a long processing time, so it is possible to build acceptable installation seams even a few hours later. PC 31-050 is used particularly as a binding agent in the production of E-layer. PC 31-050 cures under the influence of moisture.	–	16–18	1600 ±400	1.06	20 kg, 210 kg, 1050 kg
PC 31-055	is a single-component, solvent free MDI-based polyurethane prepolymer. PC 31-055 is designed for the production of elastic rubber granule surfaces at children's playgrounds.	–	8–9	3800 ±500	1.20	20 kg, 210 kg, 1050 kg
PC 31-100	is a solvent-free, low-viscous and unpigmented polyurethane binder on MDI-base. PC 31-100 is used as a binder for producing rubber granules-modules. It cures with water vapour and heat.	–	–	3700 ±800	1.15	20 kg, 210 kg, 1050 kg
PC 31-065	is a one component, solvent less MDI-based prepolymer with low viscosity. PC 31-065 is developed for installation of rubber granule sport surfaces and children's playgrounds at low temperatures. PC 31-065 cures under the influence of moisture.	–	–	2400 ±700	1.08	20 kg, 210 kg, 1050 kg
PC 31-075	is a single-component, solvent free MDI-based polyurethane prepolymer. PC 31-075 is designed for the production of elastic rubber granule surfaces at children's playgrounds at high temperatures.	–	10–12	5000 ±500	1.15	20 kg, 210 kg, 1050 kg
PC 31-350	is a solvent-free, unfilled, one-component, aromatic polyurethane binder. It has been specially developed for the production of stone carpets both indoors and outdoors.	–	–	1600	1.13	20 kg, 210 kg, 1050 kg
PC 31-360	is a solvent-free, unfilled, one-component, aliphatic polyurethane binder. It has been specially developed for the production of stone carpets both indoors and outdoors.	–	–	4200	1.12	20 kg, 210 kg, 1050 kg

Premium EPDM Granules

BINDER RECOMMENDATION FOR OPTIMAL COLOR STABILITY

Choosing the right binder is crucial for achieving an even color appearance and ensuring the longevity of the surface. Depending on the color of the EPDM granules used, we recommend using aliphatic or aromatic binders.

Aliphatic binders

Recommended for UV-sensitive or particularly light colors. They ensure maximum color stability and prevent color deviations caused by sunlight.

Aromatic binders









An economical alternative for less sensitive colors. Temporary color changes may occur under UV exposure, but these usually fade over time. The mechanical properties remain unaffected.

Note

The recommendations provided are based on many years of experience, but are not binding. Slight color differences in representations, e.g., in RAL colors, may be due to production or printing techniques.

□ Depending on the surface area/installation, aliphatic or aromatic binders can be used.

The RAL color specifications are non-binding approximate values. Deviations in color reproduction in the illustrations are due to printing technology.

COLOR	RAL	ALIPHATIC	AROMATIC
 Beige	1001		■
 Sand Yellow	1002		■
 Earth Yellow	1006		■
 Yellow	1012	□	□
 Pearl	1013	■	
 Eggshell	1015	■	
 Orange	2011	□	□
 Red	3016		■
 Rose	3017	□	□
 Purple	4005	■	
 Hertha Blue	5002	■	
 Gentian Blue	5010	■	
 Blue Grey	5014	■	
 Sky Blue	5015	■	
 Rainbow Blue	5017	■	
 Turquoise Blue	5018	■	
 Capri Blue	5019	■	
 Teal	5024	■	
 Patina Green	6000	□	□
 Reseda Green	6011	■	
 May Green	6017	■	
 Rainbow Green	6025		■
 Signal Green	6032		■
 Iron Grey	7011	■	
 Slate Grey	7015	□	□
 Light Grey	7035	■	
 Brown	8024		■
 Black	9004	□	□



COATING & SPRAY COATING

	Pot life [h]	Curing Time [h]	Viscosity [mPas] @ 23 °C	Density [g/cm ³]	Packaging
PC 41-010	is a two-component, solvent free, polyurethane-based pore sealer. PC 41-010 has excellent bonding properties to base surfaces and PUR mastic compounds.				
	0.75	6–8	Part A structural viscosity Part B 120 ±20	Part A 1.30 Part B 1.22	Part A: 16.5 kg Part B: 3.3 kg
PC 51-040	is a solvent-free, two-component polyurethane-based coating. PC 51-040 has excellent bonding properties to base surfaces and PUR mastic compounds.				
	45	–	Part A 12000 ±1000 Part B 5000 ±500	1.19	Part A: 25kg, 240 kg Part B: 22.5kg, 210 kg
PC 51-050	is a solvent free, single-component polyurethane-based spray coating. It shows an excellent adhesion to EPDM or SBR granule surfaces and is designed for the production of structural spray coated sport surfaces.				
	–	4–6	1000 ±200	1.05	25 kg, 200 kg
PC 51-055	is a one-component, water-based aliphatic spray coating. It shows an excellent adhesion to EPDM or SBR granule surfaces and is designed for the production of structural spray coated sport surfaces.				
	–	4–6	1500 ±200	1.02	110 kg



VARNISH

	Pot life [h]	Curing Time [h]	Viscosity [mPas] @ 23 °C	Density [g/cm ³]	Packaging
PC 61-010	is a two-component, solvent-based, flexible, hard-wearing, polyurethane-based varnish. PC 61-010 is designed for polyurethane surfaces used on any multipurpose facilities.				
	1.5	16	550 ±100	Part A 1.35 Part B 1.22	Part A: 8 kg, 20 kg Part B: 2 kg, 5 kg

LINE-MARKING COLOR

PC 71-020	is an elastic, weather and wear resistant, solvent based 2-component line-marking paint, designed for the marking of sports surfaces.				
	1–2	16	Part A 1600 ±400 Part B 270 ±20	Part A 1.40 Part B 1.07	Part A: 1 kg, 5 kg, 25 kg Part B: 0.2 kg, 1 kg, 5 kg

OTHER PRODUCTS

PC 11-030	is an accelerator that reduces the curing and the processing time of PUR-products. PC 11-030 is suitable especially for the catalysis of Polycomp-components.				
	–	–	100	1.01	1 kg
PC 11-050	is a VOC-free cleaner for tools.				
	–	–	–	1.09	25 kg, 215 kg
Butylacetat	is a clear, medium-volatility liquid with a characteristic ester odour. It is miscible with all common organic solvents. It's miscibility in water is limited.				
	–	–	0.74	0.879	25 kg, 215 kg

