

## Data sheet for Polyurea Coatings Application „Transportation Safety Floors“

Our **polyurea coatings** can be used in many ways. They are suitable for

- load securing floors
- for truck loading areas and trailers,
- for vans,
- for delivery / distribution vehicles and
- more.

The **properties** of the polyurea coating can be summarized as follows:

Property	Unit	Value	Regulation
Bulk density	g/cm <sup>3</sup>	1,00	DIN 53 420
Hardness	Shore A	92 – 95	DIN ISO 7619-1
	Shore D	38 – 42	
Fire behavior		CFL – s1	EN 13501-1
Tensile strength	N/mm <sup>2</sup>	21	DIN 53 504
Strain	%	425	
Tear strength	kN/m	58	DIN 53 515
Abrasion resistance (Taber Abrasion) <small>(loss, thickness ±4mm, H18 wheel, 1000 gms, 1000 cycle)</small>	mg	140	ASTM D 1044
Specific volume resistance	Ωcm	1,2 E+12	ISO 3915
Specific surface resistance	Ω	6,8 E+13	IEC 60093
Water vapor permeability	g.mm/m <sup>2</sup> .24h	16	DIN 53 122
Methane Permeability	cm <sup>3</sup> .mm/m <sup>2</sup> .24h	50	DIN 53 380

Our transportation safety floors are available in different **designs**:

Coating Thickness Polyurea	According to customer requirements
Substrate: timber plates	Commercially available material thickness from 9 to 27 mm
Dimensions of timber plates (W x L)	any
Coefficient of friction	μ ≥ 0,7
Interspesion for special applications	Material according to customer requirements

**Advantages** by using transportation safety floors:

- Compared to the alternative anti-slip mats, load securing cannot be forgotten or lost. This means that there are no penalties to fear during controls.
- Shorter loading and unloading times as there is no need to position anti-slip mats.
- No risk of injury to staff (anti-slip mats no longer have to be placed under transported goods)
- High resilience of the coating
- Chemical resistance to oils, fats, fuels and road salt
- High elasticity at extremely low (-60 °C) as well as at extremely high temperatures (+50 °C)
- Extremely low flammability
- Noise reducing - PIEK requirements - see table
- Fast amortization through time savings, durability and the elimination of anti-slip mats.

Vehicle	Surface	Rollvorgang auf	LAeq (dB)	Benefit (dB)
PIEK- roll- container	without coating	ramp	71	10
	polyurea-coating (4mm)	ramp	61	
	without coating	ramp incl. passing to vehicle	76	13,5
	polyurea-coating (4mm)	ramp incl. passing to vehicle	62,5	
e-fork lift	without coating	ramp incl. passing to vehicle	81	6
	polyurea-coating (4mm)	ramp incl. passing to vehicle	75	

We **guarantee** you ...

- Highest quality
- Extremely good adhesion of the coating
- Even mechanical application of coating
- Consistent coating properties
- Dimensions and configuration according to customer requirements
- Compliance with the prescribed norms, guidelines and standards