Sustainability calculator Background information

Renovation with	n floor remake in	stead of no	ew floo	r					
								PU	
CONSUMPTION	New ground	PU Sealer		Anticolor		UV seal		Color+Si	
CO2/m²	7.271kg	0.815kg		0.888kg		0.846kg		2,533kg	
Energy/m ²	166.89MJ	10,179MJ		11.774MJ		10.807MJ		31.171MJ	
Waste	3.000g	15,26g		15,26g		12,86g		30,86g	
Savings		absolutely	in %	absolutely	in %	absolutely	in %	absolutely	in %
CO2/m²		6,456kg	88,80%	6,383kg	87,80%	6,425kg	88,40%	4,738kg	65,20%
Energy/m ²		156.71MJ	93,80%	155.12MJ	92,90%	156.08MJ	93,50%	135.72MJ	81,30%
Waste		2,985kg	99,50%	2,985kg	99,50%	2,985kg	99,50%	2.969kg	99,00%
Basis for the calculat	tion								
CO2/m²	EPD Tarkett IQ Vinyl EPD Tarkett IQ	EPD PU Si		EPD AC		EPD UV Si		EPD Color+F	PU Si
Energy/m ²	Vinyl	EPD PU Si		EPD AC		EPD UV Si		EPD Color+R	PU Si
Waste /m²	3kg old floor	Empty con	tainer	Empty cont	tainer	Empty cont	ainer	Empty cont	ainer

Relevance of CO2 savings through floor remake through everyday comparisons

one-off saving through 100m² floor remake 645.6kg

Annual savings through 100m² PU instead of dispersion

_	CO2 load	Savings over 5 years = 6,600.6kg
Air Trip Mallorca	722kg	9.14 Air travel
Car (15.000km)	3,360kg	29,467 car-km

WE system based on	Polymer dispersion	Floor plus (2K PU)		
-	Annual CONSUMPTION per	Annual CONSUMPTION per		annual savings/m² in
Emissions/Consumption	m²	m²	annual saving/m ²	%
CO2 (in kg)	14.63kg	2,72kg	11,91kg	81,40%
Primary energy in MJ	213.39MJ	33.88MJ	179.4 MJ	84,10%
Drinking water in Itr	0,6ltr	0,1ltr	0,5ltr	83%
Chemicals in ltr	0,1ltr	0,025ltr	0,075ltr	75%
Waste in g	206g	2,54g	203,46g	99%
Microplastics in g	10g	0g	10g	100%

Basis for the calculation			
WE system based on	Polymer dispersion	Floor plus (2K PU)	
Ground plan/refurbishment	yearly GR+Introduction		
intervals	(FIGR)	Every 6 years Rehabilitation (FRT/WFK)	
Maintenance cleaning	is left out (advantages of the	UR on PU are not taken into account).	
CO2 (in kg)	LCA	LCA	
Primary energy in MJ	LCA	LCA	
Drinking water in ltr	0,1ltr for basic cleaning	0,1ltr for basic cleaning	
	0,5ltr for neutralisation	0,5ltr for neutralisation	
Chemicals in ltr	50ml Base + 50ml Disp.	50ml Primer+100ml PU Si	
Waste in g	every 15 years 3kg old floor	Empty container	
	Empty container		
Microplastics in g	chem. Removable (FK 20%)	not chemically removable	

Relevance of CO2 savings through floor plus through everyo	lay comparisons

	CO2 load	annual saving through 100m ² floor plus = 1,191kg
Air Trip Mallorca	722kg	1.65 Air travel
Car (15.000km)	3,360kg	5,317 car-km

Radavalo	pment with 484 instead of new floor
neueveit	prinerit with 404 mstead of new moor

CONSUMPTION	eucula 484	Oak 8,5mm	Oak 16mm
CO2/m²	1,268kg	4,93kg	3,58kg
Energy/m²	16.174MJ	404,516MJ	972,394MJ
Waste	18,18g	3.000g	3.000g

Savings	absolutely	in %	absolutely	in %
CO2/m²	3.662kg	74,30%	2,312kg	64,60%
Energy/m²	388,342MJ	82,40%	956.22MJ	98,30%
Waste /m²	2.982kg	99,40%	2.982kg	99,40%

Basis for the calculation

CO2/m²	EPD 484	EPD Tarkett Oak 8.5	Tarkett Oak 16mm
Energy/m ²	EPD 484	EPD Tarkett Oak 8.5	Tarkett Oak 16mm
	Empty		
Waste /m²	container	3kg old floor	3kg old floor