

SYSTEM COMPARISON

Properties	Notes	Bolidtop 700	Bolidtop 700 RF	Bolidtop 801	PU Cement	Hexagonal tiles
Basics		epoxy	epoxy	polyurethane	polyurethane & cement	ceramic
System layers		4 layers	4 layers	1 layer	minimal 2 layers	minimal 2 layers
Substrates		new + existing concrete	new + existing concrete	new + existing concrete	new + existing concrete	new + existing concrete
Destructive pre-treatment		not required	not required	not required	required	not required
Installation	*	in-house specialists	in-house specialists	in-house specialists	third parties	third parties
Start of installation	**	after stabilizing of the substrate & max. residual moisture percentage of 2.5%	after stabilizing of the substrate & max. residual moisture percentage of 2.5%	after stabilizing subsoil & wind-dry surface	on 7 days old concrete	after stabilization of substrate
Lead time of installation	***	4 days	4 days	1 day	2 days	1 day
Seamless		seamless	seamless	seamless	seamless	with seams
Surface texture		light surface texture	rough surface texture	medium surface texture	medium surface texture	variable
Layer thickness		5 mm	5 mm	5 mm	6 mm	18 mm
Skid resistance - DIN51130		R10	R12	R11	R11	R9 - R12
Water absorption		no	no	no	no	0,05%
Density		2.218 kg/m3	2.218 kg/m3	2.132 kg/m3	2.090 kg/m3	not proven
Tensile strength - EN 13892-2		25 MPa	25 MPa	18 MPa	14 MPa	not proven
Tensile strength - BS6319 deel 7		6 MPa	6 MPa	8 MPa	6 MPa	6 MPa
Impact and shock resistance		good	good	very good	good	good
Scratch resistance		good	good	good	good	good
Chemical resistance	****	good	good	very good	very good	good
Thermal resistance		-25 °C tot +80 °C, incidentally +100°C	-25 °C tot +80 °C, incidentally +100 °C	-25 °C tot +100 °C, incidentally +190 °C en -196 °C	-25 °C tot +80 °C	not proven
Possible to walk on		24 hours	24 hours	48 hours	24 hours	24 hours
Full curing of system		7 days	7 days	7 days	7 days	2 days
Emission		low emission, no food deterioration	low emission, no food deterioration	extreme low emission, no food deterioration	extreme low emission, no food deterioration	not proven
Fire resistance		Bfl-S1	Bfl-S1	Bfl-S1	Bfl-S1	Bfl-S1
Colour possibilities		21 colours	21 colours	9 colours	6 colours	6 colours
HACCP certification		yes	yes	yes	yes	yes
Halal certification		yes	yes	yes	yes	yes
Awarding Breeam points		yes	yes	yes	yes	yes

Notes

*	The installation of flooring systems is done by in-house specialists, once the processing of those systems is done by the same company that developed and produced the systems.
**	The residual moisture percentage of concrete floors and sand cement screeds may not exceed 2.5% when using a vapor-tight synthetic floor finish, which is measured at a depth of 2 cm using the calcium carbide method. This is generally achieved in new concrete and sand cement substrates after an aging period of at least 28 days. This percentage can be achieved earlier at higher temperatures, e.g. by installing electric heaters and dehumidifiers in the room. Compared to the other flooring systems, the Bolidtop 801 system can be installed faster on wind-dried substrates.
***	An example of a 100 m ² room was used in the comparison. The days listed do not include any substrate preparation and the full curing time of the flooring system.
****	A summary of chemical resistance tests performed with (an)organic acids, solvents, bases and alkalis can be received upon request.