DRIZORO®
Construction Products

PRODUCTS AND SYSTEMS

Repair and Protection for Flooring

Repair and Protection Systems for Flooring

DRIZORO, S.A.U.

DRIZORO S.A.U. is a Spanish company with more than thirty-five years of experience in the chemical industry for construction. Belongs to corporate group ***DRIZORO HOLDING***, business structure which allows organize its various national and international enterprise activity units in the field of building products.

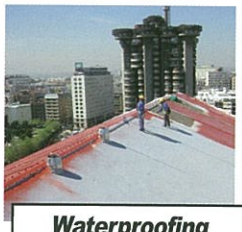
Obtain the optimum product adapted to the real needs, makes from our business vocation a constant work to address the challenges of a globalized and highly competitive sector.

The commitment of improving constantly products and internal procedures, incorporating the newest technologies, lead us to follow a clear and direct address, stimulating all company personnel, facing the present and future with enthusiasm and professionalism.

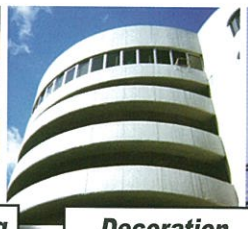
Our strong commitment with quality and environment policies, drive us to implant an integrated quality management and environment system, based on both **ISO 9001:2008** and **ISO 14001:2004** standards.

The certification of both standards awarded by ***Bureau Veritas Quality International*** on date November 27, 2003, responds to our ongoing commitment to R&D for new products and systems. This allows us to offer environmentally friendly, high quality solutions and latest technology guaranteed for proven and tested experience under the most adverse conditions throughout the entire world geography.

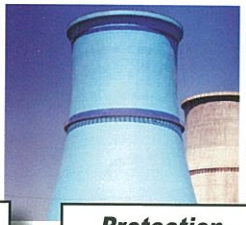
DRIZORO Technical Solutions


Waterproofing


Strengthening


Decoration

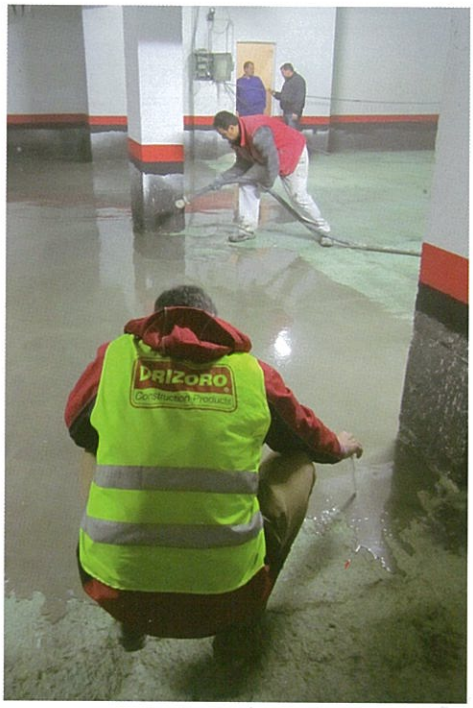

Repair


Protection


Other uses

CE MARKING

DRIZORO Products and Systems suitable for repair and patching of pavements, protection of surfaces and carrying out of continuous coatings comply with the Principles of protection against ingress, moisture control, physical resistance/surface improvement and resistance to chemicals according to European Standards: ***EN-1504***, ***EN-1504-3*** and ***EN-13813***.



	PRODUCT	Type	CE marking	
			EN 1504	EN 13813
Epoxy-based Resins	***MAXEPOX® FLEX***	HB-FC / MLF / FAF	X	X
	MAXEPOX® FLOOR	HB-FC / MLF / FAF		X
	MAXEPOX® 3000	FAF		X
	MAXEPOX® ELASTIC			
Polyurethane-based Resins	***MAXURETHANE®***	FC / MLF	X	
	MAXURETHANE® TOP	FC / MLF	X	
	MAXURETHANE® 2C	FC / MLF	X	
	MAXURETHANE® 2C -W	FC / MLF	X	
	MAXURETHANE® FLOOR	HB-FC / FAF / SF		X
Cement-based Mortars	***MAXPATCH® / MAXPATCH® M***	SF	X	
	MAXROAD®	SF	X	
	MAXFLOW® / MAXFLOW® 500	FAF		X
	MAXLEVEL® SUPER / SILENT/ -30	FAF		X
	MAXRITE® -S	SF	X	
Polyurethane & Cement based Mortars	***MAXURETHANE® CEM -L***	FAF		X
	MAXURETHANE® CEM -F	SF		X
Resins Epoxy - Cement	***MAXFLOOR® CEM***	FAF		X

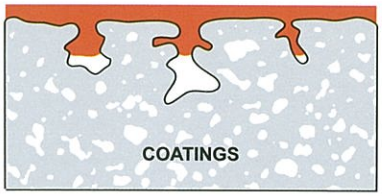
HB-FC: HIGH BUILT FLOOR COATING • MLF: MULTI-LAYER FLOORING • FAF: FLOW APPLIED FLOORING
FC: FLOOR COATING • SF: SCREED FLOORING

SURFACE PREPARATION

Surface preparation consists of obtaining a sound, clean, and roughened surface suitable for the coating/flooring system to be applied. Thus process involves:

- Removal of unsound concrete, cement laitance and other elements that could affect to adhesion, as well as the providing of suitable surface profiles for the application of the specified system,
- Verification for surface strength, and
- Applying of temporally vapour barrier and/or specific priming.

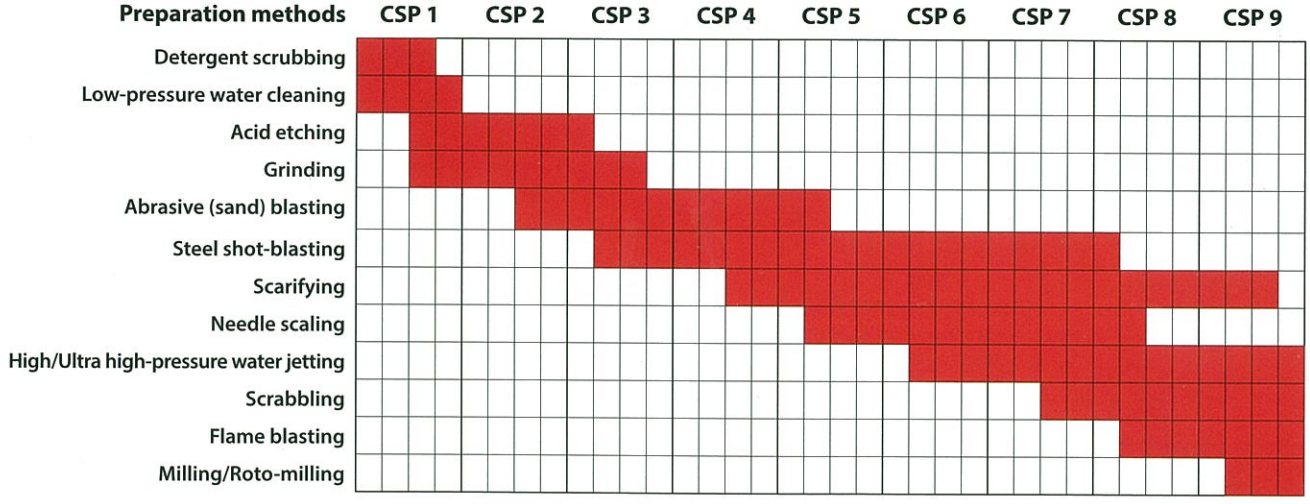
Impregnations (Floor Seals –FS-) reduce the surface porosity and to strengthen the surface. The pores and capillaries are partially or totally filled. This treatment usually leads a discontinuous, thin film on the concrete surface.



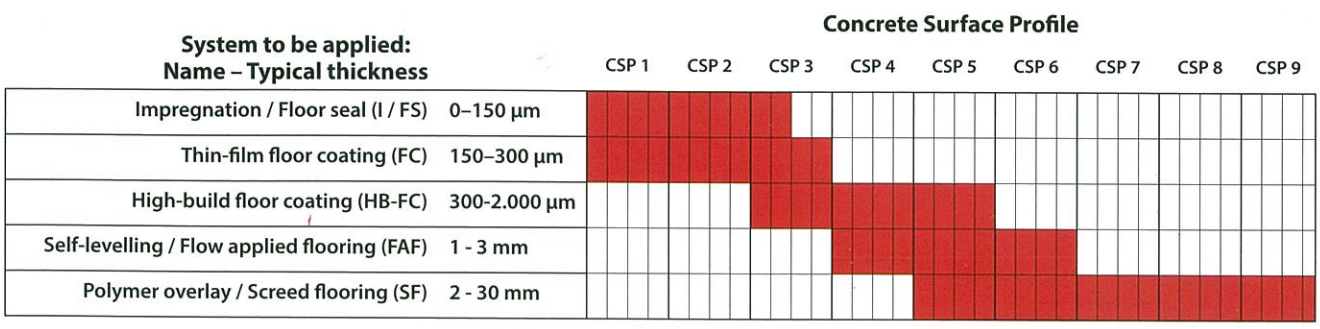
Coatings (Floor Coatings –FC-, High-Build Floor Coatings –HB-FC-, and Multi-Layer Floorings MLF-), produce a continuous protective layer on the surface of concrete.

PREPARATION METHODS FOR SURFACE

ICRI (International Concrete Repair Institute) has identified 9 distinct profile configurations (Concrete Surface Profiles –CSP-) that correspond with degree of roughness (CSP 1 -nearly flat- through CSP 9 -very rough-) considered to be suitable for the application of system to be applied.



PROFILES SUITABLE FOR THE APPLICATION OF SPECIFIED SYSTEM



SURFACE PREPARATION

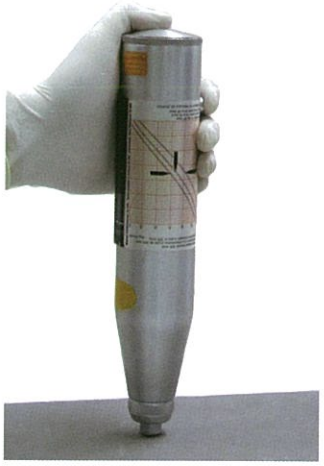
MECHANICAL PROPERTIES FOR SUBSTRATE

Concrete base (surface to be covered), after preparation to remove the surface cement laitance in the top few mm, should be sufficient to withstand any structural, thermal and mechanical stresses and loads that will occur during service of the base.

In the same way, the substrate should be sufficient to restrain any stress which may occur during setting and hardening of the flooring to be applied.

COMPRESSIVE STRENGTH:

Compressive strength measurements using a Schmidt rebound hammer (***EN 12504-2*** standard) for all substrates should be not less than **25 MPa**.



TENSILE SURFACE STRENGTH:

Tensile strength measurement using the pull-off method (***EN 1542*** standard) should normally exceed **1,5 MPa**.

PRIMINGS

Priming consist of low viscosity compositions which consolidate and provide to a good adhesion to the surface, and prevent from the presence of bubbles or any other aesthetic defects.

Low porosity surfaces:
•Polyurethane coatings: ***MAXPRIMER® PUR***

Medium rough and porous surfaces:
•Low residual humidity: ***MAXEPOX® PRIMER***
•Polyurethane floor coatings: ***MAXURETHANE® PRIMER*** or specific solvent
•Epoxy floor coatings: ***MAXEPOX® PRIMER -W / MAXPRIMER®***
•High build floor coatings: ***MAXEPOX® PRIMER / MAXURETHANE® PRIMER***
•High-performance flooring: ***MAXURETHANE® CEM PRIMER***

REPAIR AND PATCHING

PATCHING MATERIALS

Saw the girth of the area to be fixed perpendicularly with proper tools and then scale the surface in order to obtain a solid surface with a minimum thickness in edges of 5 mm.

Apply a bonding agent or bonding slurry, resulted of mixing 5 parts of mortar with 1 part of water or mixing liquid, using a brush over the prepared surface.

Wait until the bonding slurry becomes matt and then apply the patching mortar over the prepared area, compacting mentioned mortar with trowel.

	Characteristics		Thickness (cm)		Return to traffic		
	Base / Mixing Liquid	Components	Pure	Aggregate extended	Low	Medium	Heavy
MAXPATCH®	Cement/Acrylic resin	2	0,5-2,5	> 2,5	24 h	48 h	5 d
MAXPATCH® -M	Cement/Water	1	0,5-2,5	> 2,5	24 h	48 h	5 d
MAXROAD®	Cement/Water	1	3,0-5,0	> 5,0	2 h	2 h	2 h
MAXROAD® EXPRESS	Cement/Water	1	3,0-5,0	5,0-30,0< 2,0 m^3	2 h	2 h	2 h
MAXEPOX® REPAIR	Epoxy resin	3	0,5-5,0	> 5,0	1 h	2 h	3 h
MAXPATCH® -MC	Methacrylic resin	2 / ***DRIZORO® SILICA***	---	0,5-1,5 / 1,5-12,0	1 h	2 h	5 h

REPAIR OF CONCRETE FLOORING EXPOSED TO WHEEL TRAFFIC

CE **MAXROAD®**

EN 1504-3. Hydraulic cement mortar (CC) for non-structural repair of concrete (R2).

- Repair of concrete paving exposed to heavy wheel traffic, wherein fast return to traffic is required: highways, bridges, parking areas, hangars, garages, etc.
- Repair of concrete floor, filling of voids and other damages and defects, prior to levelling surface with self-levelling mortars.
- ***MAXROAD® EXPRESS***: Patching of concrete floors suitable for large volumes; up to 2 m^3.

REPAIR OF INDUSTRIAL CONCRETE FLOORING IN MINIMUM THICKNESS

CE **MAXPATCH®**

EN 1504-3. Polymer hydraulic cement mortar (PCC) for non-structural repair of concrete (R2).

- Restoration of paving and concrete floors, roads, loading areas and surfaces subject to high wear in warehouses, parking areas, hangars, truck docks, industrial facilities, etc.
- Patching of horizontal surfaces to be levelled or lifted. Repair and finishing of non-slip ramps with high resistance to wheel traffic.
- ***MAXPATCH® -M***: One component repair mortar suitable for industrial concrete paving in minimum thickness.

REPAIR OF CONCRETE FLOORING UP TO 50 mm THICK PER LAYER

MAXEPOX® REPAIR

Thixotropic, solvent free, epoxy-based mortar for concrete repair in thick layer.

- Repair of concrete paving exposed to heavy wheel traffic, wherein fast return to traffic is required: highways, bridges, parking areas, hangars, garages, etc.
- Repair of joints in paving, hydraulic jobs and structures wherein a high impact resistance is required.
- Repair of concrete steps and stairs, wheeling areas, fixing areas for heavy machinery, etc.

REPAIR OF CONCRETE FLOORING AT LOW TEMPERATURE APPLICATION

MAXPATCH® MC

Methacrylate-based mortar suitable for urgent repairs of flooring and/or very low temperature uses.

- ***MAXPATCH® MC -S***: Suitable for uses from -20 °C to 0 °C.
- ***MAXPATCH® MC***: Suitable for uses from 0 °C to +40 °C.

CEMENT-BASED FLOORING SYSTEMS

Screed is one or more layers of mortar placed at the construction site on a base. It can either be bonded to the base or not or laid in situ on an intermediate or separating layer or no an insulation layer. Its purpose is to fulfil one or more of the following purposes:

- TO OBTAIN A DEFINED LEVEL
- TO USE AS A BASE FOR FINAL FLOORING MATERIAL
- TO PROVIDE A WEARING SURFACE

According to EN 13813 European Standard, screed materials mixed on site for floor construction are classified in accordance with to the type of binder (CT, cementitious screeds, and SR resin synthetic screeds), and usual properties as follows:

Compressive strength class, (N/mm^2)	C5 5	C12 12	C20 20	C30 30	C35 35
Flexural strength class, (N/mm^2)	F3 3	F4 4	F5 5	F6 6	F7 7
Wear resistance Böhme class, (Abrasion: $cm^3/50\ cm^2$)	A12 12	A9 9	A6 6	A3 3	A1,5 1,5

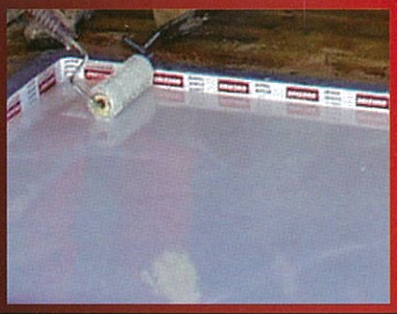
SELF-LEVELLING / FLOW APPLIED FLOORIN (FAF)

	MAXFLOOR® CEM	MAXFLOW®	MAXFLOW® 500	MAXLEVEL® SUPER	MAXLEVEL®-30	MAXLEVEL® SILENT
DESCRIPTION	Solvent-free, three-component epoxy-cement	Two-component, cement, resins and metallic fibres	One-component, cement, resins and metallic fibres	Cement modified with resins	Cement modified with resins	Cement modified with resins and special additives
THICKNESS	1,5 - 3 mm	3 - 8 mm	3 - 8 mm	3 - 15 mm	5 - 30 mm	5 - 15 mm
CE MARKING	CT-C30-F7-A6	CT-C50-F10-A6	CT-C35-F7-A6	CT-C30-F7-A6	CT-C30-F4	CT-C5-F3
INITIAL SETTING TIME	30´ - 1 h	1 - 2 h	1,5 - 2,5 h	1- 2 h	1 h	20´ - 30´
FINAL SETTING TIME	1 - 1,5 h	3 - 6 h	2,5 - 4,5 h	2 - 3 h	2 h	
CURING FOR PEDESTRIANS	24 h	8 - 12 h	8 - 12 h	8 - 12 h	24 h	24 h
ADHESION	> 2,5	> 2,0	> 1,5	> 2,0	> 1,5	
BÖHME ABRASION	4,5	4,3	4,7	5,2		

CE MAXFLOOR® CEM

TEMPORARY MOISTURE BARRIER

Self-levelling, epoxy-cement based mortar for levelling and protection of concrete flooring *EN 13813 CT-C30-F7-A6.* Polymer-modified cement screed material.



- Self-levelling base over surfaces with temporary moisture for indoor floorings, before applying epoxy or polyurethane coatings.
- Repair and protection of flooring affected by road traffic in industrial areas, parking areas, truck docks, etc. Protection against chemical attack in manufacturing plants, industrial facilities, waste water treatment plants, etc.
- Smoothing and levelling of flooring, prior to installation of finishes: parquet, linoleum, carpet, vinyl, floor tiles, etc..
- Repair and patching of floors by trowel by aggregated extended formula.
- Preparation of a suitable surface over damp substrates before finishing with epoxy or polyurethane top-coatings.

CE MAXFLOW®

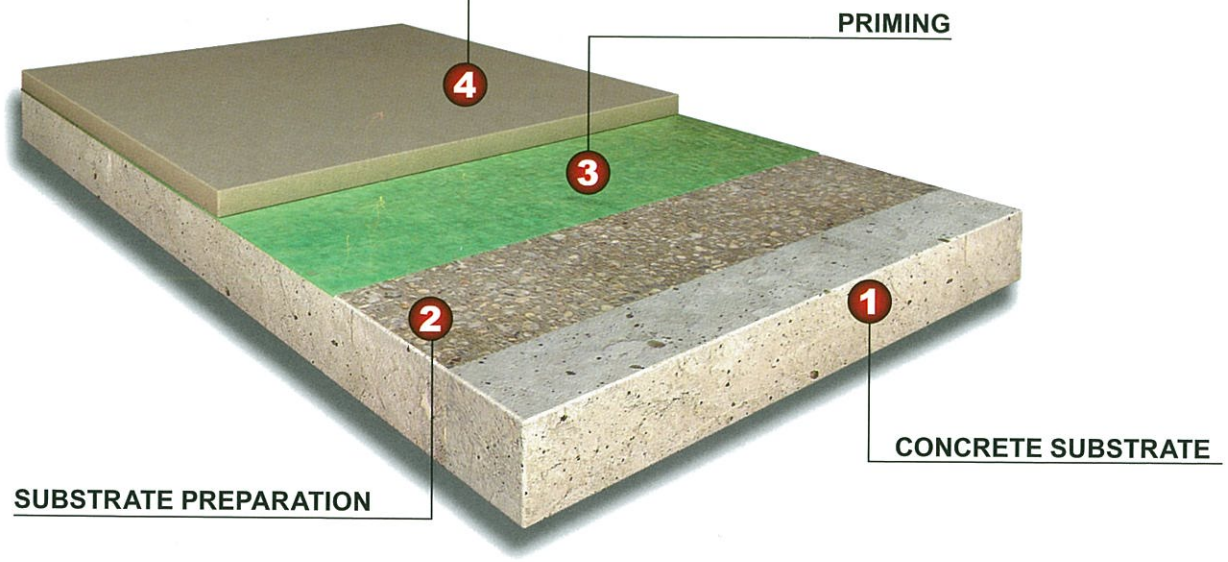
WEARING SURFACES FOR OUTDOOR APPLICATIONS

One-component, self-levelling mortar with high abrasion resistance for repairing of concrete flooring *EN 13813 CT-C50-F10-A6.* Polymer-modified cement screed material.

- Levelling of warehouses/industrial floors exposed to wearing wherein a new finish with high abrasion resistance is required.
- Repair and levelling concrete flooring with high resistant to wheel traffic in parking areas, warehouses, decks, hangars, etc.
- Restoration of concrete pavements damaged by weathering (freeze/thaw cycles and de-icing salts, etc.) in sidewalks, causeways, squares, etc.
- Screed for outdoor/indoor surfaces before floor-surfacing systems such as ceramic tiles, stone, wood, pile carpet, epoxy and polyurethane, etc.
- Available in one-component version: ***MAXFLOW® 500***

CEMENT-BASED FLOORING SYSTEMS

SELF LEVELLING / FLOW APPLIED FLOORING (FAF)



WEARING SURFACES FOR INDOOR APPLICATIONS

CE **MAXLEVEL® SUPER**

Quick-setting, cement-based self-levelling underlayment mortar for indoor concrete flooring ***EN 13813 CT-C30-F7-A6***. Polymer-modified cements screed material.

- Self-levelling underlayment for indoor subfloor before floor-surfacing systems such as ceramic tiles, carpet, stone, wood, vinyl sheeting, epoxy and polyurethane topcoats, etc.
- Repair and levelling of surfaces on concrete flooring, terrazzo, ceramic tiles and stone in residential buildings, hospitals, hotels, offices, etc.
- Repair and wearing layer of concrete pavements exposed to moderate wheel traffic in industrial floors, warehouses, workshops.
- Levelling over floor heating systems.

HIGH BUILD AND NON-WEARING SURFACES FOR INDOOR APPLICATIONS

CE **MAXLEVEL® -30**

Cement based self-levelling underlayment mortar for indoor concrete flooring with thickness up to 30 mm. ***EN 13813 CT-C30-F4.*** Polymer-modified cement screed material.

- Self-levelling underlayment with thickness up to 30 mm. for indoor subfloor before floor-surfacing systems such as ceramic tiles, carpet, stone, wood, vinyl sheeting, epoxy and polyurethane topcoats, etc.
- Repair and levelling of surfaces on concrete flooring, terrazzo, ceramic tiles and stone in residential buildings, hospitals, hotels, offices, etc.
- Levelling and screeding of indoor concrete flooring.

SOUND INSULATION AND NON-WEARING SURFACES FOR INDOOR APPLICATIONS

CE **MAXLEVEL® SILENT**

Cement based, self-levelling underlayment mortar for acoustic isolation and impact sound reducing. ***EN 13813 CT-C5-F3***. Polymer-modified cement screed material.

- Soundproofing and impact noise reducing of flooring in residential buildings, hospitals, hotels, offices, etc.
- Soundproofing, self-levelling underlayment as indoor subfloor before floor-surfacing systems such as ceramic tiles, carpets, stone, wood, vinyl sheeting, epoxy and polyurethane topcoats, etc.
- Repair and levelling on terrazzo, tiles, stone and concrete pavements.

CEMENT-BASED FLOORING SYSTEMS


1.- PRIMING


2.- MORTAR APPLICATION


3.- AIR REMOVING WITH SPIKE ROLLER

SCREED FLOORING (SF)

MAXMORTER® FLOOR
MAXMORTER® FLOOR -10

SCREED FOR INDOOR APPLICATIONS

Fast setting hydraulic binder for screeds .

- Increasing of thickness up to 40 mm (***MAXMORTER® FLOOR***) or up to 100 mm (***MAXMORTER® FLOOR -10***) suitable for indoor flooring before floor-surfacing systems such as ceramic application of pavement such as epoxy and polyurethane topcoats, etc.
- Levelling in large thickness for horizontal concrete surfaces and cement mortars.
- Levelling over floor heating systems.

CE MAXRITE® -S
CE MAXRITE® -HT
CE MAXRITE® -F

BASES, FALLS AND WEARING SURFACES FOR OUTDOOR APPLICATIONS

One-component, polymer modified mortars for the structural repair of large surfaces ***EN 1504-3.***
Polymer-modified hydraulic cement mortar (PCC) for structural repair of concrete (R3/R4).

- Restoration of structural concrete elements, recovering the original shapes and functions.
- Structural strengthening of concrete elements, and restoration of passivity for rebars.
- Repair of horizontal and vertical large areas.
- Repairing and lining of underground jobs, tunnels, galleries, etc.
- Repair of pavements and slabs, and slopes.

CEMENT-BASED FLOORING SYSTEMS

RESIN-BASED FLOORING SYSTEMS

ADVANTAGES

- **STRONG AND PERMANENT ADHESION TO THE CONCRETE BASE.**
- **EXCELLENT RESISTANCE TO A WIDE RANGE OF CHEMICALS.**
- **WATERPROOFNESS TO LIQUIDS.**
- **HIGH TOUGHNESS, DURABILITY, RESILIENCE, AND RESISTANCE TO IMPACT OR ABRASION.**
- **HYGIENIC AND EASILY CLEANED SURFACES.**
- **GREATER RESISTANCE TO CRACKING.**
- **RAPID INSTALLATION AND CURING WITH MINIMUM DISRUPTION TO NORMAL OPERATION.**

PERFORMANCE CHARACTERISTICS

The most appropriate flooring for any situation will depend upon the particular conditions to which it will be subjected. A variety of synthetic resins, typically epoxy, polyurethane and acrylic, can be formulated to produce the different resin type.

In very general terms the service life will be proportional to the applied thickness of the synthetic resin flooring. However many operational factors will directly affect the performance including the severity of trafficking (wheel type and loading), the frequency and efficiency of cleaning, mechanical handling abuse and impact, presence of aggressive chemicals, etc.

Synthetic resin based floorings are classified into different types, each exhibiting its own particular performance characteristics. Factors influencing the selection of a flooring system should include amongst other: intended used, type of loading and impacts, chemical resistance, temperature, colour and texture, neutral odour, crack bridging capability, site conditions at time of installation, suitability for cleaning and/or food contact, slip resistance, etc.

INTENDED USE INCLUDING TYPE, EXTENT AND FREQUENCY OF TRAFFICKING:
L. Light foot traffic, occasional rubber tire vehicles.
M. Regular foot traffic, frequent fork lift truck traffic, occasional hard plastic-wheeled trolleys.
H. Constant fork lift truck traffic, hard plastic-wheeled trolleys, some impact.

TYPE OF LOADING, STATIC OR DYNAMIC, AND SEVERITY OF IMPACT:
L. Low resistance to impact damage. Some improvement to substrate.
M. Medium/improved resistance to wear and impact damage.
H. High resistance to impact damage.

CONTACT WITH CHEMICALS, INCLUDING THOSE USED FOR CLEANING OR STERILIZING AND SPILLAGE:
L. Low resistance. Protection only against occasional spillage of mild chemicals.
M. Medium resistance. Protection to occasional spillage of some chemicals in the absence of mechanical damage.
H. High resistance. Protection to occasional spillage.
VH. Very high protection and resistance.

EASY OF CLEANING OR SUITABILITY FOR FOOD INDUSTRY:
L. Light cleanability. Some improvement in cleaneablity over concrete. Cleaning methods: wash & vacuum dry.
M. Medium cleanability. Improved cleanability over concrete. Cleaning methods: wash & vacuum dry.
H. High cleanability. Good smooth sealed surface, readily cleaned. Cleaning methods: mechanical scrubber/dryers-

SLIP RESISTANCE: WET OR DRY SERVICE CONDITIONS
L. Low resistance. High slip potential on smooth surface.
M. Medium resistance. Reduced slip potential may be reduced with a light aggregate scatter.
H. High resistance. Low slip potential, but dependent on profile of aggregate dressing.

L: Low; **M**: Medium; **H**: High, **VH**: Very High

RESIN-BASED FLOORING SYSTEMS

Synthetic resin-based floorings are classified according to thickness and surface finish, as follows:

NAME	DESCRIPTION	TYPICAL THICKNESS	APPEARANCE	Intended use & Duty	Loading & Impact resistance	Chemical Protection	Hygiene & Cleanability	Slip resistance
Impregnation / Floor seal (I / FS)	Applied in 2 or more coats. Solvent or water based	< 150 µm	Thin film Follows floor profile	L	(1)	L	L	L
Floor coating (FC)	Applied in 2 or more coats. Solvent or water based	150-300 µm	Thin film Follows floor profile	L-M	(1)	L	M	L
High build floor coating (HB-FC)	Applied in 2 or more coats. 100% solid, solvent free.	0,3-1,0 mm	Follows undulations but reduces profile	M	L	M	H	L
Multi-layer flooring (MLF)	Aggregate dressed systems based on multiple layers of floor coatings or flow-applied floorings.	>2 mm	Textured or profiled surface	M-H	M	H	(2)	H
Flow applied flooring (FAF)	Self-smoothing or self-levelling flooring and having a smooth surface	2-6 mm	Very smooth finish	H-VH	VH	H-VH	H	M
Screed flooring (SF)	Trowel-finished, heavily filled systems, generally incorporating a surface seal coat to minimize porosity.	>4 mm	Fine texture or smooth surface depending on seal coats	VH	VH	VH	(3)	H

(1) Liable to impact damage. No noticeable improvement to substrate.
(2) Conditioned cleanability subject to surface texture. Cleaning methods: rotatory brush/vacuum machine.
(3) Conditioned to sealing of surface.

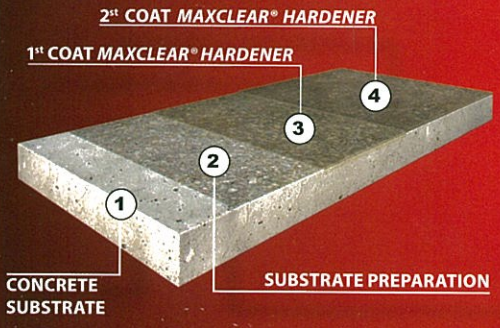
L: Low; M: Medium; H: High, VH: Very High

IMPREGNATIONS (I) AND SURFACE HARDENERS

HARDENER AND DUSTPROOFING SEALER FOR CONCRETE SURFACES

MAXCLEAR® HARDENER

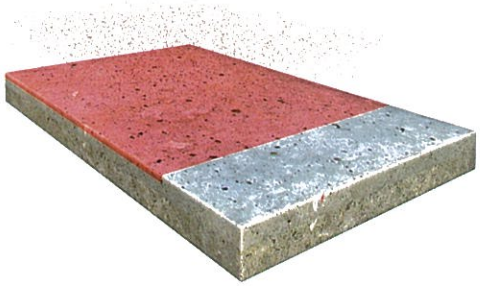
Liquid hardener to be applied in two coats at right angles to each other. In general terms, one primer is required and then, one or two coats, once the previous coat has dried, extended with brush, roller or other mechanic means.



- Increasing the wearing resistance and provide a dust-proofing finish for concrete flooring such as industrial floors, parking areas, hospitals, sport centres, etc.
- Sealing of dusty flooring surfaces and protection of both concrete and cement-based mortars damaged by aggressive atmospheric conditions.
- Surface consolidation for concrete and mortars in order to enhance adhesion prior to coating.
- Finishing and protection of pre-cast elements.

CEMENT-BASED DRY-SHAKE SURFACE HARDENER FOR CONCRETE FLOORS

MAXDUR®

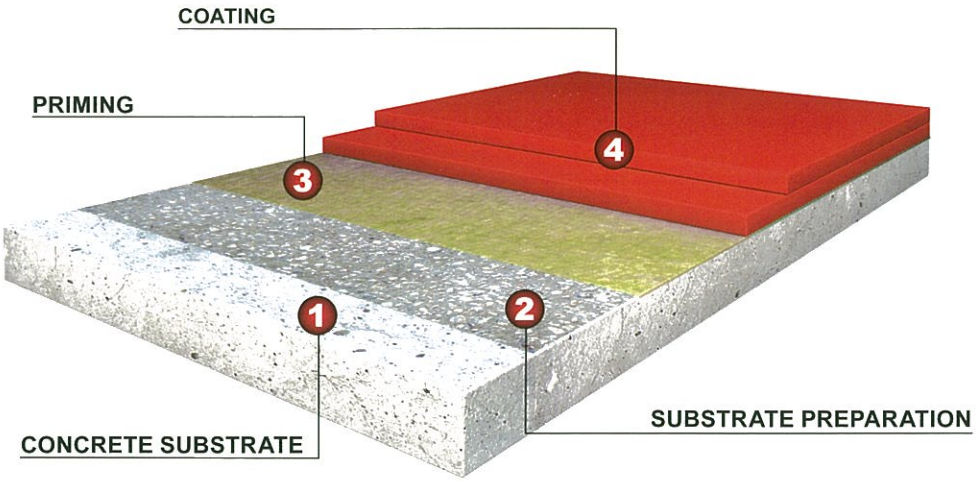


- Improvement of abrasion resistance and anti-dust finish for flooring in garages, shopping centres, sports centres, schools, hospitals, etc., subjected to moderate or medium traffic.
- Dock slabs in warehouses, industrial facilities, fuel stations subjected to moderate erosion.
- ***MAXDUR®-C***: Dry-shake surface hardener and dustproofing sealer with corundum for concrete surfaces.

RESIN-BASED FLOORING SYSTEMS

FLOOR SEAL (FS) / FLOOR COATING (FC) / HIGH BUILD FLOOR COATING (HB-FC)

These systems are usually applied by brush, roller or spraying means in 2 or more coats, applied at right angles to each other. Typically the first coat is allowed to cure until it is just tack-free before applying the second coat.

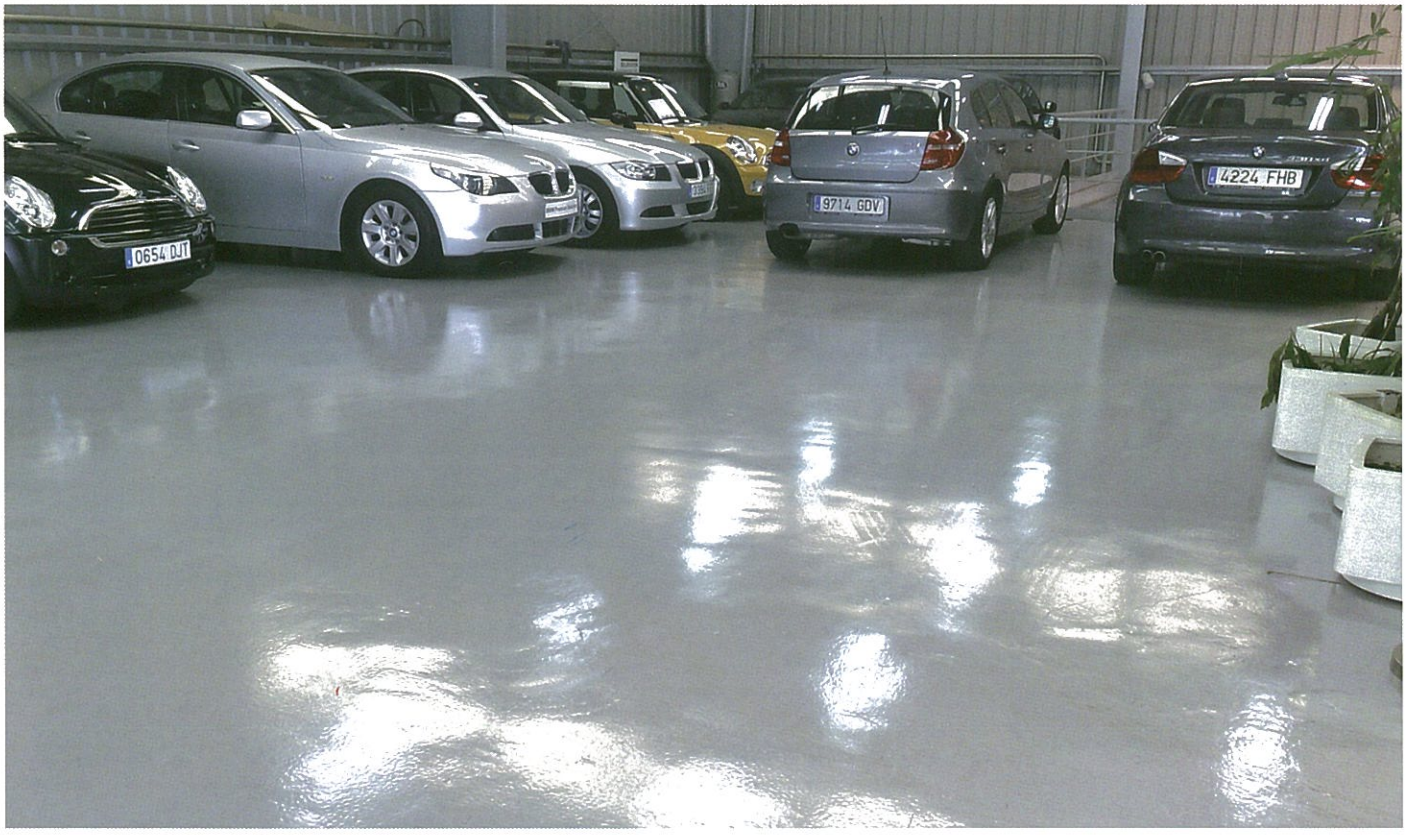


Reaction to fire classification for DRIZORO flooring systems according to **EN 13.501-1**

PRODUCT	Reaction to fire
MAXFLOOR®	B_{fl} s1
MAXEPOX® FLOOR	
MAXURETHANE® FLOOR	

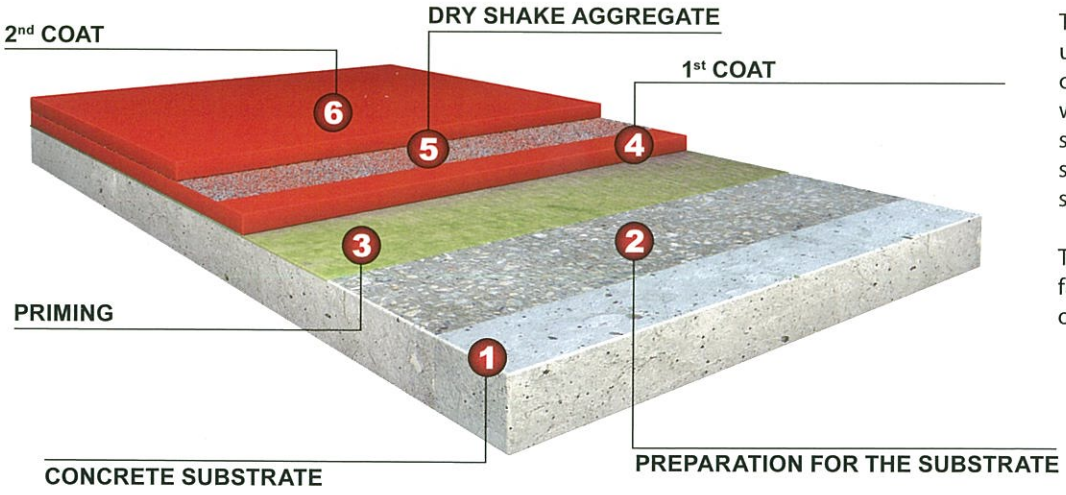
	PRODUCT	Type	Priming (kg/m²)	1st Coat (kg/m²)	2nd Coat (kg/m²)
Others	***MAXCLEAR® HARDENER***	FS	---	0,15-0,3	0,15-0,3
	MAXFLOOR® SPORT	FC	Porous substrates: 5-10% water: 0,25-0,3	0,25-0,3	Optional 0,2-0,3
Epoxy-based resin	***MAXFLOOR®***	FC	Porous substrates: 5% water: 0,2-0,3	0,2-0,3	Optional 0,2-0,3
	MAXEPOX® FLEX	HB-FC	Porous and dry substrates: ***MAXEPOX® PRIMER*** 0,25-0,3 Low residual moisture substrates: ***MAXEPOX® PRIMER-W***: 0,25-0,3	0,3-0,35	0,3-0,35
	MAXEPOX® ELASTIC	HB-FC		0,4-0,5	0,4-0,5
	MAXEPOX® FLOOR	HB-FC		0,25-0,3	0,25-0,3
Polyurethane-based resin	***MAXURETHANE®*** (1)	FC	Porous and dry substrates: 30% ***MAXSOLVENT®***: 0,2	0,10	0,10
	MAXURETHANE® TOP	FC	Porous and dry substrates: 50% ***MAXSOLVENT®***: 0,2	0,2-0,25	0,2-0,25
	MAXURETHANE® 2C	FC	Porous and dry substrates: 10-15% ***MAXURETHANE® 2C SOLVENT***: 0,2	0,2-0,25	0,2-0,25
	MAXURETHANE® 2C -W	FC	---	0,2-0,25	0,2-0,25
	MAXURETHANE® FLOOR (1)	HB-FC	Porous and dry substrates: ***MAXEPOX® PRIMER / MAXURETHANE® PRIMER*** 0,25-0,3 Low residual moisture substrates: ***MAXEPOX® PRIMER-W***: 0,25-0,3	0,25-0,3	0,25-0,3

(1) ***MAXEPOX® ELASTIC:*** Priming and base suitable for flooring subjected to expansion, vibrations or high-risk of stress cracking.



RESIN-BASED FLOORING SYSTEMS

MULTI-LAYER FLOORING (MLF)

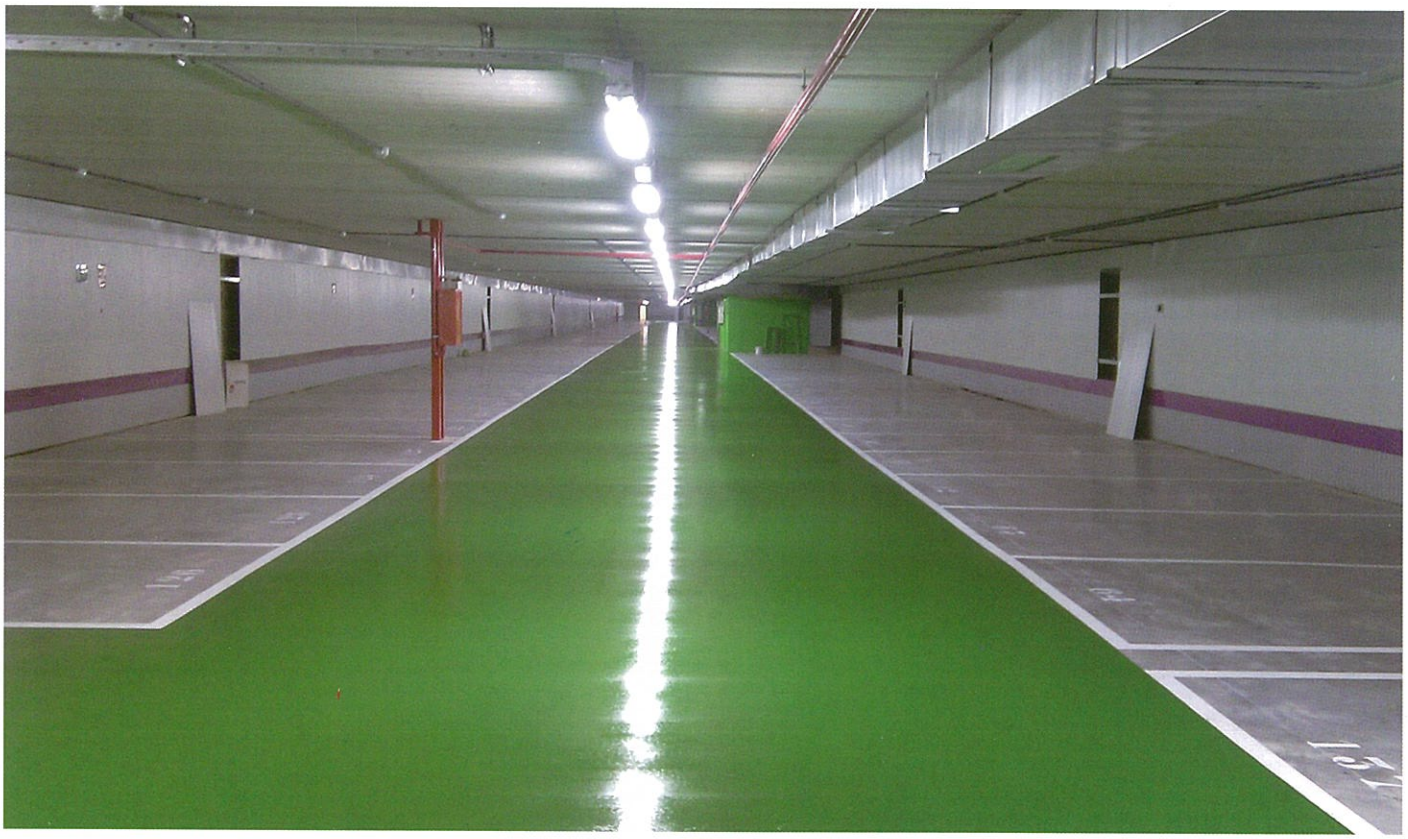


These systems are normally made using combinations of floor coatings or flow-applied flooring with intermediate aggregate scatter, colour and nature selected over a fresh coating surface.

The appearance will depend on factors such as kind and quantity of aggregate used.

	PRODUCT(1)	Sliding floor classification	Type	Priming (kg/m²)	1st Coat (kg/m²)	Dry Shake Aggregate	2nd Coat (kg/m²)
Epoxy-based resin	***MAXFLOOR®***	***3***	FC	Porous substrates: 5% water: 0,2-0,3	0,25-0,35	***DRIZORO® SILICA*** ***0204:*** Medium texture ***0308:*** Rough texture ***MAXEPOX® COLOR***(2) 1,0-1,5 kg/m²	0,25-0,35
	MAXEPOX® FLEX	***2***	HB-FC	Porous and dry substrates: ***MAXEPOX® PRIMER:*** 0,25-0,3 Low residual moisture substrates: ***MAXEPOX® PRIMER-W***: 0,25-0,3	0,5-0,6		0,5-0,6
	MAXEPOX® FLOOR	***2-3***	HB-FC		0,5-0,6		0,5-0,6
Polyurethane-based resin	***MAXURETHANE®***	***3***	FC	Porous and dry substrates: 30% ***MAXSOLVENT®***: 0,2	0,1		0,2-0,25
	MAXURETHANE® TOP	***3***	FC	Porous and dry substrates: 50% ***MAXSOLVENT®***: 0,2	0,1		0,2-0,25
	MAXURETHANE® 2C	***3***	FC	Porous and dry substrates:10-15% ***MAXURETHANE® 2C SOLVENT***: 0,2	0,2-0,25		0,1-0,2
	MAXURETHANE® 2C -W	***3***	FC	---	0,2-0,25		0,1-0,2
	MAXURETHANE® FLOOR	***2***	HB-FC	Porous and dry substrates: ***MAXEPOX® PRIMER/MAXURETHANE® PRIMER*** 0,25-0,3 Low residual moisture substrates: ***MAXEPOX® PRIMER-W***: 0,25-0,3	0,5-0,6		0,2-0,3

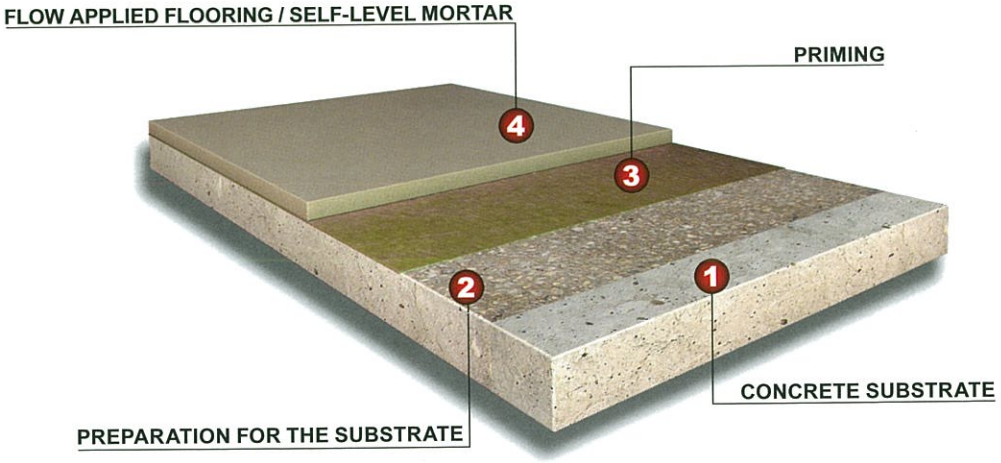
(1) ***MAXEPOX® ELASTIC:*** Priming and base suitable for flooring subjected to expansion, vibrations or high-risk of stress cracking.



RESIN-BASED FLOORING SYSTEMS

FLOW APPLIED FLOORING (FAF)

These systems are designed to flow out readily in order to provide a smooth substantially level surface. They are applied by spreading evenly over the surface, using a serrated trowel, pin rake or squeegee. This should be immediately followed by rolling with a spiked roller to release any entrapped air and assist in smoothing out.



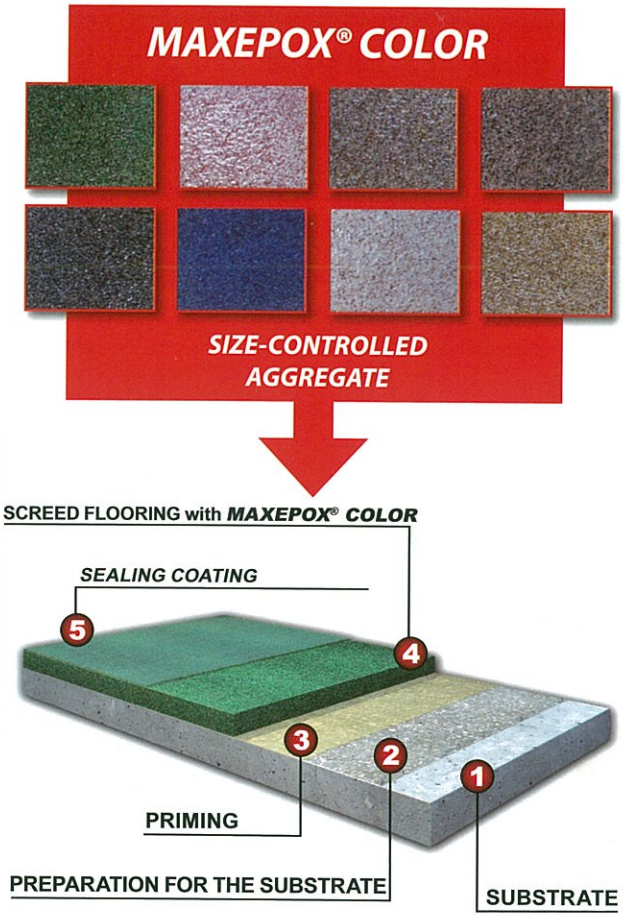
	PRODUCT[1]	Priming (kg/m²)	Aggregates & Mixing Ratio (w:w)	Thickness & Consumption
Epoxy-based resin	***MAXEPOX® FLEX***	Porous and dry substrates: ***MAXEPOX® PRIMER*** 0,25-0,3 Low residual moisture substrates: ***MAXEPOX® PRIMER -W***: 0,25-0,3 kg	***DRIZORO® SILICA 0204*** (A+B):C = 1:1	1,0-2,0 mm 2,0 kg/m²•mm
	MAXEPOX® 3000		30 kg pre-weight set A:B:C = 6,8:3,2:20	2,0-3,0 mm 1,7 kg/m²•mm
	MAXEPOX® FLOOR		***DRIZORO® SILICA 0204*** (A+B):C = 1:1 / 1:0,7	1,0-2,0 mm 2,0 kg/m²•mm
Polyurethane-based resin	***MAXURETHANE® FLOOR***	Porous and dry substrates: ***MAXEPOX® PRIMER*** 0,25-0,3 ***MAXURETHANE® PRIMER*** 0,25-0,3 Low residual moisture substrates: ***MAXEPOX® PRIMER -W***: 0,25-0,3	***DRIZORO® SILICA 0204*** (A+B):C = 1:1 / 1:0,7	1,0-2,0 mm 1,6 kg/m²•mm

(1) ***MAXEPOX® ELASTIC:*** Priming and base suitable for flooring subjected to expansion, vibrations or high-risk of stress cracking.

SCREED FLOORING (SF)

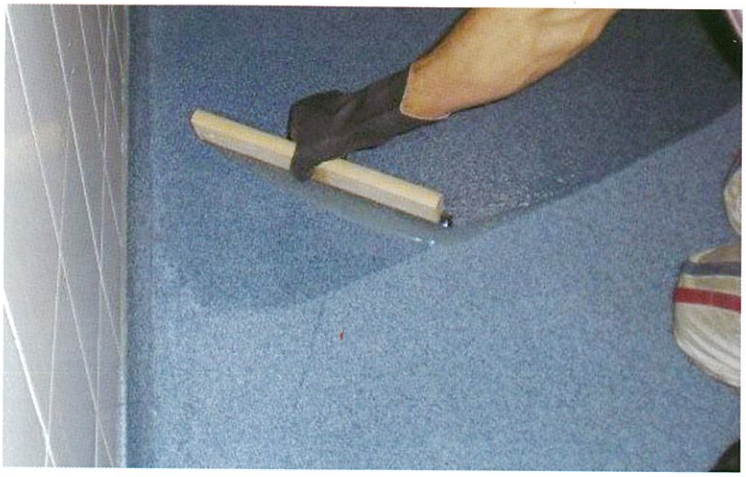
Mixed material is spread out over the primed substrate, either by trowel or screed box, or between screeding laths or bars to ensure a uniform thickness and level surface throughout. Screed should be well consolidated in order to obtain the optimum properties from the end product. A final smooth finish should be obtained using a suitable steel trowel. Because the flooring is hand finished, there will inevitable be slight variations in the surface appearance from trowelling.

Trowel-applied resin flooring provides a durable slip resistant floor surface. If a more hygienic surface is required, use one or two coat application of a compatible resin, much of which is absorbed into the trowel applied flooring sealer applied. This may be either a solvent-free or solvent-coating system applied by brush, squeegee or roller.



	PRODUCT[1]	Priming (kg/m²)	Aggregates & Mixing Ratio (w:w)	Thickness & Consumption
Epoxy-based resin	***MAXEPOX® MORTER***	Porous and dry substrates: ***MAXEPOX® PRIMER*** 0,25-0,3	***DRIZORO® SILICA 0308/1020/0204*** ***MAXEPOX® COLOR***[2] (A+B):C = 1:5 a 1:6 - 1:10	2,0-10,0 mm 2,0-2,1 kg/m²•mm
	MAXEPOX® FLOOR	Low residual moisture substrates: ***MAXEPOX® PRIMER-W***: 0,25-0,3	***DRIZORO® SILICA 0308*** (A+B):C = 1:3	2,0-10,0 mm 2,1 kg/m²•mm
Polyurethane-based resin	***MAXURETHANE® FLOOR***	Porous and dry substrates: ***MAXEPOX® PRIMER*** 0,25-0,3 ***MAXURETHANE® PRIMER*** 0,25-0,3	***DRIZORO® SILICA 0308*** (A+B):C = 1:3	3,0-10,0 mm 1,9 kg/m²•mm
	MAXURETHANE® PAV	Low residual moisture substrates: ***MAXEPOX® PRIMER -W***: 0,25-0,3	1-3 mm (6 %, w/w), 3-5 mm (5 %, w/w) 5-8 mm (4%, w/w), 8-12 mm (3 %, w/w) 12-16 mm (2,5 %, w/w), 16-22 mm (2 %, w/w)	---

(1) ***MAXEPOX® ELASTIC:*** Priming and base suitable for flooring subjected to expansion, vibrations or high-risk of stress cracking.
(2) ***MAXEPOX® MORTER*** + ***MAXEPOX® COLOR*** is a solvent-free epoxy coloured silica screed system applied with a even texture, and it is available in an attractive range of coloured silica blends. ***MAXEPOX® ELASTIC,*** priming and 1st coat for flooring subjected to expansion, vibrations or high-risk of stress cracking.



SEALANTS. JOINTS AND CRACKING

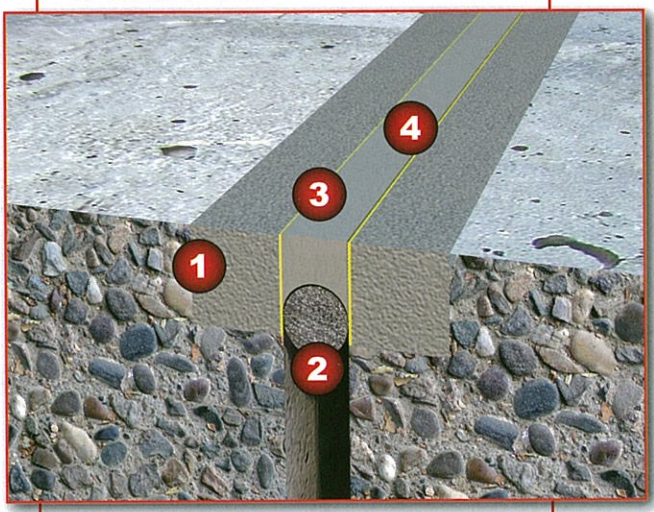
MAXFLEX® 800

POLYURETHANE SEALANTS

High modulus one-component self-levelling polyurethane sealant

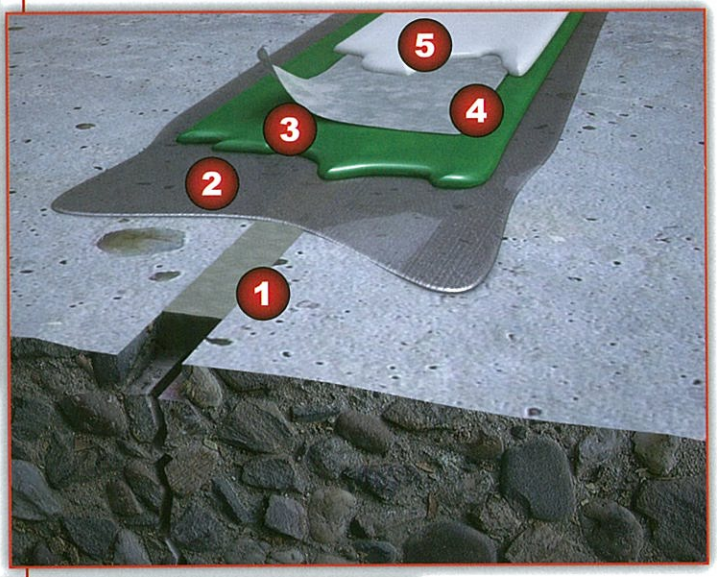
- Sealing of horizontal joints in industrial concrete floors subjected to medium-severe wheel traffic.
- Sealing of horizontal joints between different masonry units.

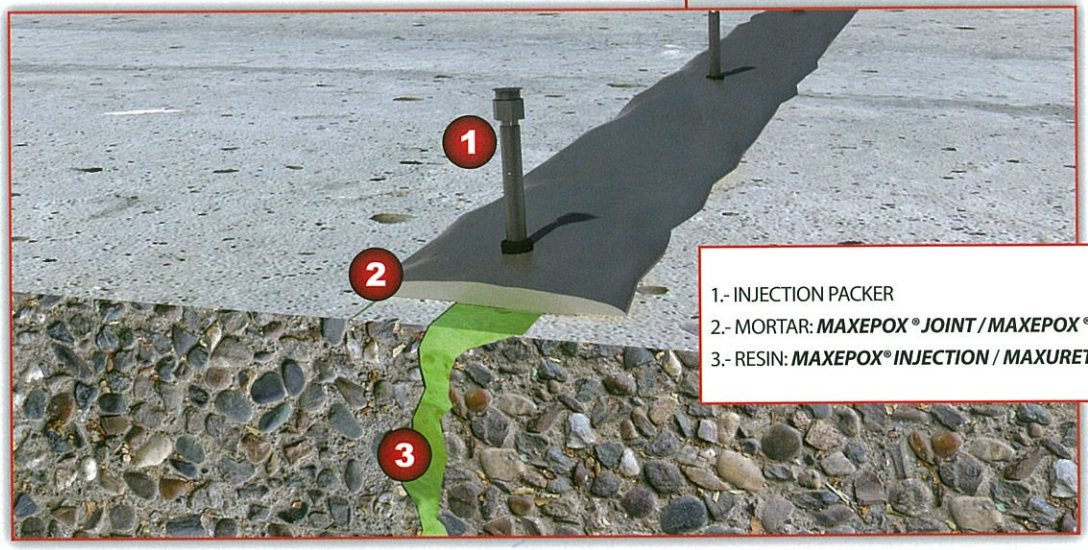
JOINTS



1.- REPAIR MORTAR:
MAXEPOX® REPAIR/MAXEPOX® MORTER/ MAXGROUT®
2.- BACKING ROD: ***MAXCEL®***
3.- PRIMING: ***PRIMER® 1***
4.- SEALANT: ***MAXFLEX® 800***

1.- REPAIR MORTAR: ***MAXREST®***
2.- PRIMING: ***MAXEPOX® PRIMER***
3.- 1st COAT: ***MAXEPOX® FLOOR / MAXEPOX® ELASTIC / MAXURETHANE® FLOOR***
4.- FIBERGLASS VEIL: ***DRIZORO® VEIL***
5.- 2nd COAT: ***MAXEPOX® FLOOR / MAXEPOX® ELASTIC / MAXURETHANE® FLOOR***





CRACKS

1.- INJECTION PACKER
2.- MORTAR: ***MAXEPOX® JOINT / MAXEPOX® ELASTIC***
3.- RESIN: ***MAXEPOX® INJECTION / MAXURETHANE® INJECTION -LV***

MAXEPOX® INJECTION

MAXURETHANE® INJECTION -LV

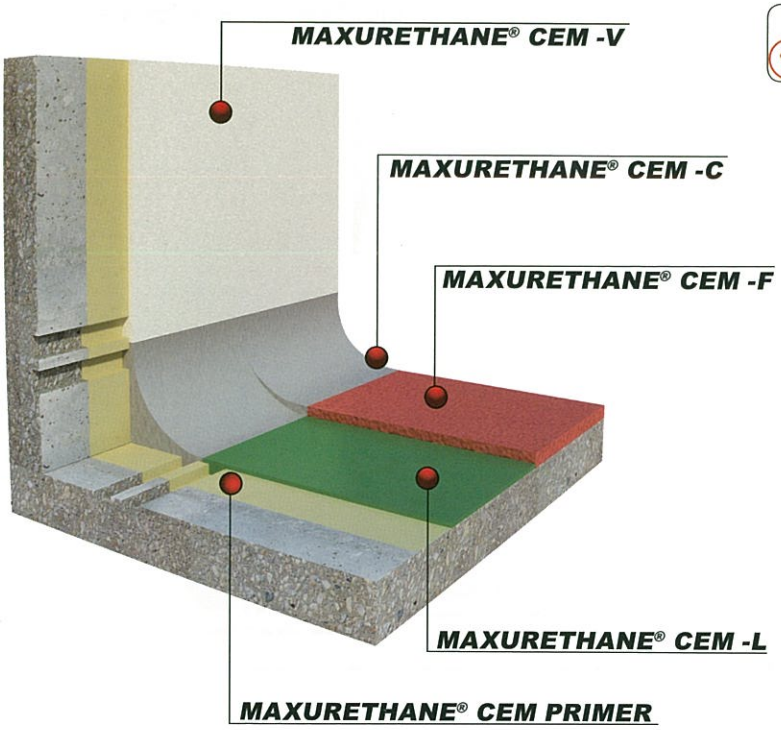
LOW VISCOSITY TWO-COMPONENT INJECTION RESINS

Suitable for repair of cracks and fissures by pouring or pressure-injection means.

- Sealing of joints or cracks in industrial concrete floors, parking areas, etc., by injection or pouring.
- 100 % solid, solvent-free. Environmentally friendly.

MAXURETHANE® CEM SYSTEM

CEMENT AND POLYURETHANE FLOORING SYSTEM OF HIGH PREFORMANCE



ADVANTAGES OF THE SYSTEM

- **HIGHER THERMAL RESISTANCE** than epoxy coatings: from - 40 °C up to + 150 °C.
- Suitable for steam **CLEANING** treatments with thickness above 9 mm.
- **HIGH MECHANICAL PROPERTIES** such us compressive strength, abrasion, impact and mechanical cleaning.
- **EXCELLENT CHEMICAL RESISTANCE,** higher than epoxy-based systems.
- Allows application on 7 days **CONCRETE** and on slightly moisture surfaces.
- Applicable in **DIFFERENT THICKNESS,** up to 10 mm per layer, depending on needing and requirement of job-site.
- **NON-TOXIC, SOLVENT-FREE AND NON-FLAMMABLE** product. Suitable for use in bad ventilated areas.

PRODUCT(1)	Use	Priming (kg/m²)	Aggregates & Mixing Ratio (w:w)	Thickness & Consumption
MAXURETHANE® CEM-L	Horizontal – Fluid	Porous and dry substrates: ***MAXURETHANE® CEM PRIMER*** 1,5-2,0	A:B:C= 4,92:5,78:25	4,0 - 6,0 mm 2,0 kg/m²•mm
MAXURETHANE® CEM-F	Horizontal – Trowel-applied		A:B:C= 2,73:3,21:25,5	4,0 - 15,0 mm 2,0 kg/m²•mm
MAXURETHANE® CEM-V	Vertical		A:B:C= 2,75:3,24:25	3,0 - 10,0 mm 2,0 kg/m²•mm
MAXURETHANE® CEM-C	Corners and outstanding points		A:B:C= 2,71:3,21:25	3,0 - 20,0 mm 2,0 kg/m²•mm

(1) For exterior applications, all systems can be finished with a coloured and UV-protective coating such as ***MAXURETHANE® 2C***.

SCREED FLOORING (SF)
POLYURETHANE-CEMENT DRY MORTAR WITH SLIGHTLY TEXTURED FINISH

CE ***MAXURETHANE® CEM -F***

Three-component, dry mortar. Mixed material is spread out over the primed substrate, either by trowel or screed box, or between screeding laths or bars to ensure a uniform thickness and level surface throughout.

- Screed should be well consolidated in order to obtain the optimum properties from the end product. A final smooth finish should be obtained using a suitable steel trowel.
- Trowel-applied resin flooring provides a durable slip resistant floor surface. If a more hygienic surface is required, use one or two coat application of a compatible resin applied by brush, squeegee or roller.

FLOW APPLIED FLOORING (FAF)
POLYURETHANE-CEMENT FLUID MORTAR WITH SMOOTH FINISH

CE ***MAXURETHANE® CEM -L***

Mortar designed to flow out readily in order to provide a smooth and substantially level surface.

- Applied by spreading evenly over the surface, using a serrated trowel, pin rake or squeegee.
- Use a spiked roller to release any entrapped air and assist in smoothing out.

RESIN-BASED COATINGS

GARAGES

COMMERCIAL AREA

INDUSTRY

COMMERCIAL AREA

APPLICATION FIELDS


PARKING


FOOD INDUSTRY


FINISHING


WAREHOUSES


PLAYGROUND

APPLICATION FIELDS

	PRODUCT	DESCRIPTION	Underground parking	Outdoor parking	Roofs, terraces and car parking decks	Garages, manufacturing, assembly and storage areas	Food-process areas and industrial kitchens	Spillage areas and containment barrels	Freezers and fridge chambers	Clean and sterile areas	Buildings, hotels and offices	Markets, supermarkets, malls	Restaurants and commercial areas
CEMENT-BASED	**MAXPATCH®**	Two component, cement-based patching mortar for application thickness from 5 to 25 mm.	●	●	●	●							
	MAXROAD®	Fast-setting, one-component, cement-based patching mortar for application thickness from 30 to 50 mm. Placing into service in 2 hours.	●	●	●	●							
	MAXPATCH® MC	High performance, fast setting repair, methacrylate-based resin mortar for very urgent repairs of pavements and low temperature use.	●	●	●	●			●				
	MAXFLOW®	Two-component, high strength, cement-based, fiber-reinforced, repair finishing and sel-levelling mortar for exterior applications from 3 to 8 mm.	●	●		●					●		
	MAXLEVEL® SUPER	Fast-setting, one-component, synthetic resin-modified cement-based, self-levelling mortar for underlayment for interior applications.	●			●					●	●	●
	MAXLEVEL®-30	One-component, polymer-modified, self-levelling mortar with normal setting-time based on special cements for indoor concrete floors with thickness up to 30 mm.	●			●					●	●	●
	MAXLEVEL® SILENT	One-component self-levelling mortar, based on polymer-modified cement for acoustic and thermal isolation.									●		
	MAXMORTER® FLOOR	Fast-setting, polymer-modified cement-based binder for thickness increasing and repair of concrete surfaces and floors.	●								●	●	●
	MAXRITE®-S	Normal setting, single component polymer-modified mortar, made up of special cements for the repair of large surfaces by spraying. Available in sulphate resistance version.	●	●	●	●					●	●	●
OTHERS	**MAXCLEAR® HARDENER**	Hardener and dust-proofer for concrete surfaces and cement mortars.	●	●		●							
	MAXDUR®	Coloured, aggregate and cement-based, dry shake surface hardener, sealer and dust-proofer for green concrete. Available in different colours.	●	●		●							
	MAXFLOOR® SPORT SYSTEM	Protective and decorative acrylic coating for indoor and outdoor pavements.	●	●									
EPOXY RESIN	**MAXFLOOR®**	Water-dispersed epoxy, protective and decorative coating for horizontal surfaces.	●			●					●	●	●
	MAXEPOX® FLEX	Two-component, solvent-free, flexible and waterproof epoxy formulation suitable for use on concrete and metal substrates.	●			●	●			●	●	●	●
	MAXEPOX® 3000	Three component, epoxy based, self-levelling and decorative mortar with high performance for concrete surfaces and floors up to 3 mm.	●								●	●	●
	MAXEPOX® FLOOR	High performance and protective epoxy-based binder for self-levelling mortars, trowelable mortars, coatings and other multilayer flooring systems.	●				●				●	●	●
	MAXEPOX® MORTER	Two-component formula composed of pigmented, epoxy-modified resins, especially designed for multilayer pavements.	●		●						●	●	●
	MAXEPOX® ELASTIC	Transparent and elastic epoxy resin for sealing joints, trowel-grade mortars and elastic coatings for pavements.	●	●		●	●				●	●	●
POLYURETHANE RESIN	**MAXURETHANE®**	Clear, one-component, solvent-based polyurethane, protective floor coating with exceptional chemical resistance for interior applications.	●			●	●	●	●	●	●	●	●
	MAXURETHANE® TOP	One-component, high weathering resistant, elastic, clear aliphatic polyurethane-based, protective coating for interior and exterior applications.	●	●		●					●	●	●
	MAXURETHANE® 2C	Two component, high weathering resistant, elastic aliphatic polyurethane-based, protective coating for interior and exterior applications.	●	●	●	●	●	●			●	●	●
	MAXURETHANE® 2C-W	Two-component, water-based polyurethane protective coating for outdoor uses.	●	●	●	●		●			●	●	●
	MAXURETHANE® FLOOR	Two-component, solvent-free, pigmented polyurethane binder designed to provide a wide range of flooring for protection and decorative finish of concrete pavements and cement mortars.	●			●		●	●	●	●	●	●
	MAXURETHANE® PAV	One-component transparent liquid based on solvent-free aliphatic polyurethane resin, specifically designed to be mixed with aggregates to provide stone-exposed pavements in thick layer.										●	●
POLYURETHANE & CEMENT	**MAXURETHANE® CEM-F**	Trowel applied polyurethane-cement mortar for anti-slip pavements with high chemical and mechanical performances from 4 to 15 mm thickness.				●		●	●				
	MAXURETHANE® CEM-L	Fluid polyurethane-cement mortar designed to provide high performance smooth pavements between 4 to 6 mm thickness.				●		●	●				
	MAXURETHANE® CEM-V	Polyurethane-cement mortar coating for vertical surfaces with high chemical and mechanical performances from 3 to 10 mm thickness.				●		●	●				
	MAXURETHANE® CEM-C	Polyurethane-cement mortar for sealing corners and outstanding points with ***MAXURETHANE® CEM*** system.				●		●					
EPOXY-CEMENT	**MAXFLOOR® CEM**	Three-component, cement and epoxy resin-based, self-levelling mortar for concrete surfaces, floors and interior applications from 1.5 to 3 mm.	●	●		●					●	●	●

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ISO 9001
ISO 14001
BUREAU VERITAS Certification
nº: ES045396-1/ES045397-1