



**PRODUCTS AND SYSTEM**



# ***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.

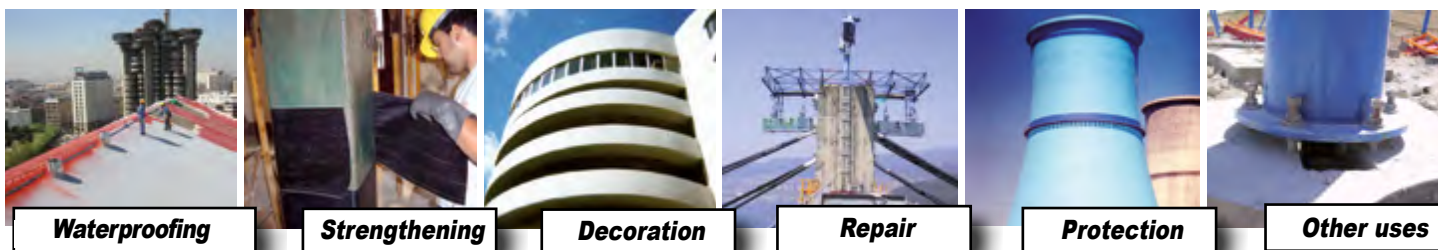
The commitment of improving constantly products and internal procedures, incorporating the newest technologies, lead us to follow a clear and direct address, stimulating all company personnel, facing the present and future with enthusiasm and professionalism.

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



## 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
<b>Epoxy-based Resins</b>	<b>MAXEPOX® FLEX</b>	HB-FC / MLF / FAF	X	X
	<b>MAXEPOX® FLOOR</b>	HB-FC / MLF / FAF		X
	<b>MAXEPOX® 3000</b>	FAF		X
	<b>MAXEPOX® ELASTIC</b>			
<b>Polyurethane-based Resins</b>	<b>MAXURETHANE®</b>	FC / MLF	X	
	<b>MAXURETHANE® TOP</b>	FC / MLF	X	
	<b>MAXURETHANE® 2C</b>	FC / MLF	X	
	<b>MAXURETHANE® 2C -W</b>	FC / MLF	X	
	<b>MAXURETHANE® FLOOR</b>	HB-FC / FAF / SF		X
<b>Cement-based Mortars</b>	<b>MAXPATCH® / MAXPATCH® M</b>	SF	X	
	<b>MAXROAD®</b>	SF	X	
	<b>MAXFLOW® / MAXFLOW® 500</b>	FAF		X
	<b>MAXLEVEL® SUPER / SILENT / -30</b>	FAF		X
	<b>MAXRITE® -S</b>	SF	X	
<b>Polyurethane &amp; Cement based Mortars</b>	<b>MAXURETHANE® CEM -L</b>	FAF		X
	<b>MAXURETHANE® CEM -F</b>	SF		X
<b>Resins Epoxy - Cement</b>	<b>MAXFLOOR® CEM</b>	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. This 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.

Preparation methods	CSP 1	CSP 2	CSP 3	CSP 4	CSP 5	CSP 6	CSP 7	CSP 8	CSP 9
Detergent scrubbing	■	■	■						
Low-pressure water cleaning	■	■	■						
Acid etching		■	■	■	■				
Grinding			■	■	■	■			
Abrasive (sand) blasting			■	■	■	■	■		
Steel shot-blasting			■	■	■	■	■	■	
Scarifying				■	■	■	■	■	■
Needle scaling					■	■	■	■	■
High/Ultra high-pressure water jetting						■	■	■	■
Scrabbling							■	■	■
Flame blasting								■	■
Milling/Roto-milling									■

## PROFILES SUITABLE FOR APPLICATION OF SPECIFIED SYSTEM

System to be applied: Name – Typical thickness	Concrete Surface Profile								
	CSP 1	CSP 2	CSP 3	CSP 4	CSP 5	CSP 6	CSP 7	CSP 8	CSP 9
Impregnation / Floor seal (I / FS) 0–150 µm	■	■	■	■					
Thin-film floor coating (FC) 150–300 µm	■	■	■	■	■				
High-build floor coating (HB-FC) 300–2.000 µm			■	■	■	■			
Self-levelling / Flow applied flooring (FAF) 1 - 3 mm				■	■	■	■		
Polymer overlay / Screed flooring (SF) 2 - 30 mm					■	■	■	■	■



# 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 -W**
- High humidity level: **MAXPRIMER® WET**
- 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
<b>MAXPATCH®</b>	Cement/Acrylic resin	2	0,5-2,5	> 2,5	24 h	48 h	5 d
<b>MAXPATCH® -M</b>	Cement/Water	1	0,5-2,5	> 2,5	24 h	48 h	5 d
<b>MAXROAD®</b>	Cement/Water	1	3,0-5,0	> 5,0	2 h	2 h	2 h
<b>MAXROAD® EXPRESS</b>	Cement/Water	1	3,0-5,0	5,0-30,0 < 2,0 m <sup>3</sup>	2 h	2 h	2 h
<b>MAXEPOX® REPAIR</b>	Epoxy resin	3	0,5-5,0	> 5,0	1 h	2 h	3 h
<b>MAXPATCH® MMA</b>	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

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<sup>3</sup>.

CE **MAXROAD®**



### REPAIR OF INDUSTRIAL CONCRETE FLOORING IN MINIMUM THICKNESS

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.

CE **MAXPATCH®**

### REPAIR OF CONCRETE FLOORING UP TO 50 mm THICK PER LAYER

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.

**MAXEPOX® REPAIR**



### REPAIR OF CONCRETE FLOORING AT LOW TEMPERATURE APPLICATION

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






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

**MAXPATCH® MMA**

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

## SELF-LEVELLING / FLOW APPLIED FLOORING (FAF)






	<b>MAXFLOOR® CEM</b>	<b>MAXFLOW®</b>	<b>MAXFLOW® 500</b>	<b>MAXLEVEL® SUPER</b>	<b>MAXLEVEL® -30</b>	<b>MAXLEVEL® SILENT</b>
<b>DESCRIPTION</b>	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
<b>THICKNESS</b>	1,5 - 3 mm	3 - 8 mm	3 - 8 mm	3 - 15 mm	5 - 30 mm	5 - 15 mm
<b>CE MARKING</b>	CT-C30-F7-A6	CT-C50-F10-A6	CT-C35-F7-A6	CT-C30-F7-A6	CT-C30-F4	CT-C5-F3
<b>INITIAL SETTING TIME</b>	30' - 1 h	1 - 2 h	1,5 - 2,5 h	1 - 2 h	1 h	20' - 30'
<b>FINAL SETTING TIME</b>	1 - 1,5 h	3 - 6 h	2,5 - 4,5 h	2 - 3 h	2 h	
<b>CURING FOR PEDESTRIANS</b>	24 h	8 - 12 h	8 - 12 h	8 - 12 h	24 h	24 h
<b>ADHESION</b>	> 2,5	> 2,0	> 1,5	> 2,0	> 1,5	
<b>BÖHME ABRASION</b>	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.

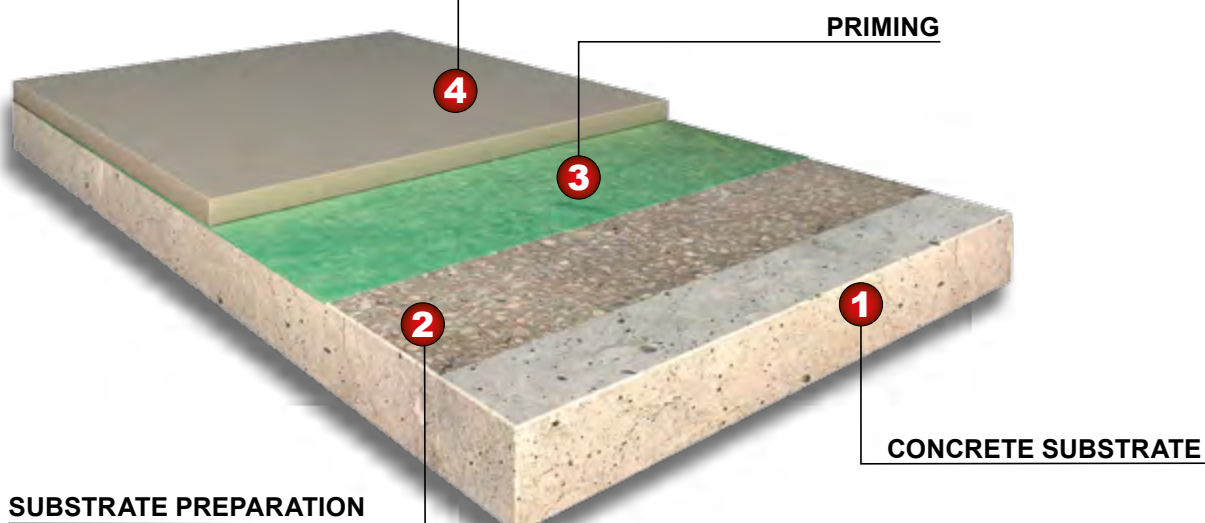
-  Levelling of warehouses/industrial floors exposed to wearing wherein a new finish with high abrasion resistance is required.
-  Repair and levelling concrete flooring with high resistant to wheel traffic in parking areas, warehouses, decks, hangars, etc.
-  Restoration of concrete pavements damaged 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)







PRIMING

CONCRETE SUBSTRATE

SUBSTRATE PREPARATION

### WEARING SURFACES FOR INDOOR APPLICATIONS

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.



CE **MAXLEVEL® SUPER**



### HIGH BUILD AND NON-WEARING SURFACES FOR INDOOR APPLICATIONS

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.

CE **MAXLEVEL® -30**

### SOUND INSULATION AND NON-WEARING SURFACES FOR INDOOR APPLICATIONS

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.

CE **MAXLEVEL® SILENT**



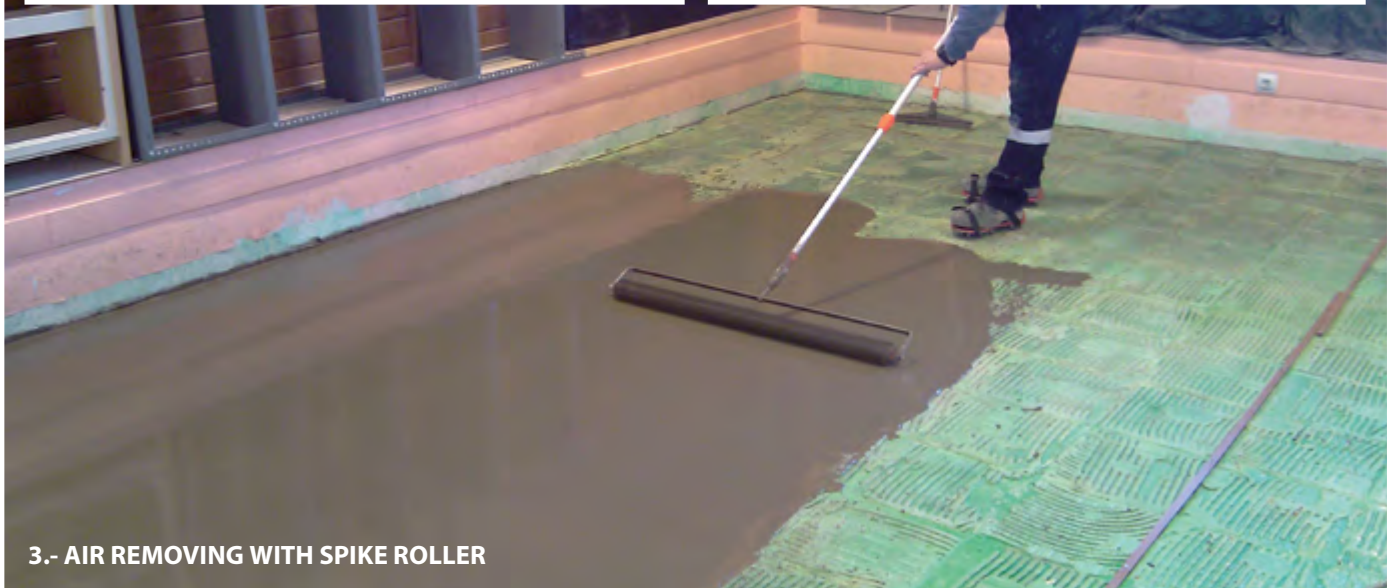
# CEMENT-BASED FLOORING SYSTEMS



1.- PRIMING



2.- MORTAR APPLICATION



3.- AIR REMOVING WITH SPIKE ROLLER

## SCREED FLOORING (SF)

### MAXMORTER® FLOOR

#### SCREED FOR INDOOR APPLICATIONS

Fast setting hydraulic mortar for screeds (versions: <40 mm / <100 mm).

### MAXMORTER® FLOOR -10

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.

### MAXRITE® -S

#### 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).

### MAXRITE® -HT

● Restoration of structural concrete elements, recovering the original shapes and functions.

● Structural strengthening of concrete elements, and restoration of passivity for rebars.

### MAXRITE® -F

● 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.**
-  **EASY** **HYGIENIC AND EASILY CLEANED SURFACES.**
-  **GREATER RESISTANCE TO CRACKING.**
-  **QUICK** **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 cleanability 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
<b>Impregnation / Floor seal (I / FS)</b>	Applied in 2 or more coats. Solvent or water based	< 150 µm	Thin film Follows floor profile	L	(1)	L	L	L
<b>Floor coating (FC)</b>	Applied in 2 or more coats. Solvent or water based	150-300 µm	Thin film Follows floor profile	L-M	(1)	L	M	L
<b>High build floor coating (HB-FC)</b>	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
<b>Multi-layer flooring (MLF)</b>	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
<b>Flow applied flooring (FAF)</b>	Self-smoothing or self-levelling flooring and having a smooth surface	2-6 mm	Very smooth finish	H-VH	VH	H-VH	H	M
<b>Screed flooring (SF)</b>	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.

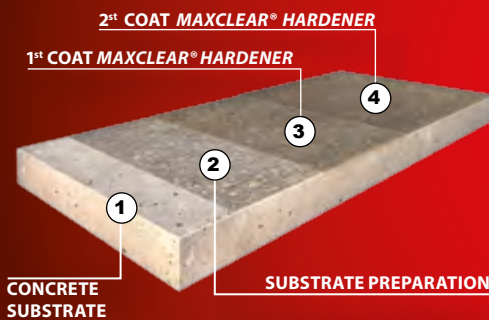
L: Low; M: Medium; H: High, VH: Very High

## 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®

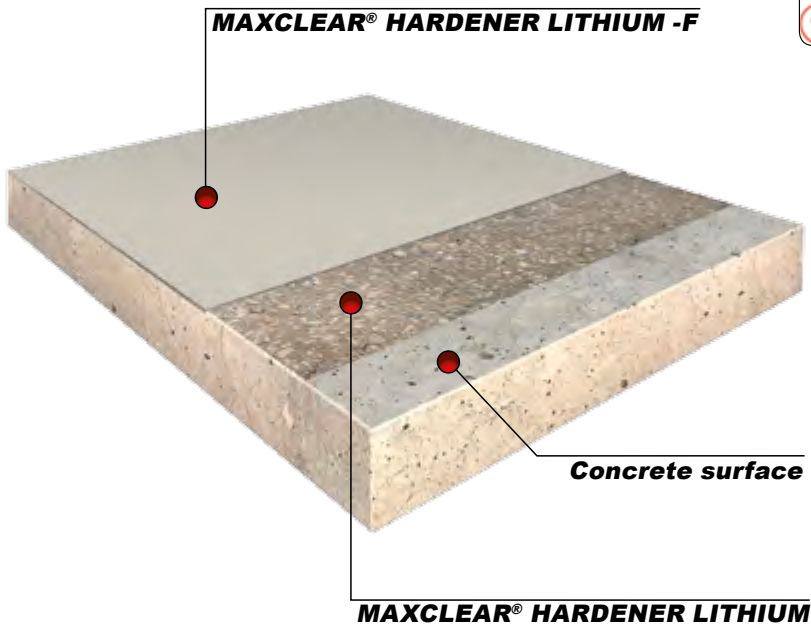


- Improvement of abrasion resistance and anti-dust finish for flooring in garages, shopping centres, sports centres, schools, hospitals, etc., subjected to moderate or medium traffic.
- Dock slabs in warehouses, industrial facilities, fuel stations subjected to moderate erosion.
- MAXDUR®-C:** Dry-shake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



# RESIN-BASED FLOORING SYSTEMS

## LITHIUM SILICATE BASED SURFACE HARDENER FOR PROTECTION AND FINISHING



### ADVANTAGES FOR THE SYSTEM

- ✓ Penetrates further into the capillaries of concrete due to **NANOPARTICLES** in formula compared to other hardener liquids (from 10 to 100 mm depending on the quality of concrete).
- ✓ Suitable for new or old concrete, in **HORIZONTAL OR VERTICAL SURFACES**.
- ✓ Allows the substrate to breath once treated, does not lead a vapour barrier.
- ✓ Extraordinary **HARDNESS AND LONG LASTING**, increasing chemical resistance against salts, water, diluted acid and alkali, the abrasion and impact resistance, sealing concrete surface.
- ✓ Provides **ASR PROTECTION** (alkali-silica reaction), not contributing to alkalinity and preventing the reaction in concrete surfaces.
- ✓ It reduces the growth of mildew, fungi, and micro-organisms.

### MAXCLEAR® HARDENER LITHIUM

#### LITHIUM SILICATE BASED SURFACE HARDENER

Colour-less liquid product based on lithium silicate nanoparticles in water solution which, once applied, its active chemical compounds penetrate deeply reacting with free lime of new or old concrete forming insoluble tricalcium silicate extremely resistant and providing a concrete surface stronger and longer.

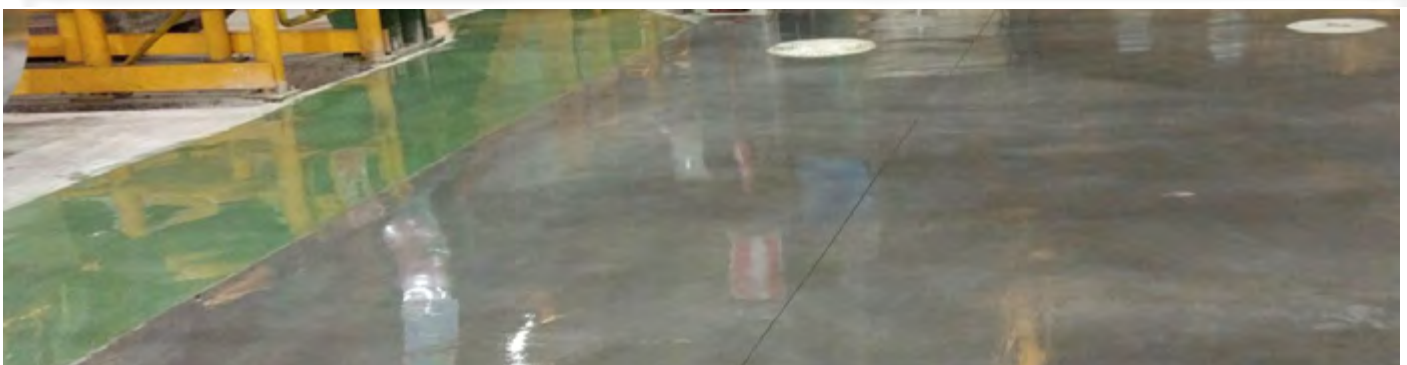
- Protection of concrete in civil engineering, residential building, etc. against rebar corrosion in sea environment and industrial aggressive environments such as treatment plants, bridges, port facilities, silos, reservoirs, etc.
- Use in concrete pavement to increase the wearing resistance, chemical resistance and impart a dust-proofing finish for industrial floors, parking, hospitals, sport centres, warehouses, ramps, etc.

### MAXCLEAR® HARDENER LITHIUM -F

#### LITHIUM SILICATE BASED SURFACE HARDENER WITH GLOSSY APPEARANCE

Liquid product for indoor and outdoor applications which seals, densifies and hardens concrete through its pores and capillaries, provides a protection of the treated surface reducing its water absorption and improving its hardness, abrasion resistance, weathering and contact with chemical compounds. It incorporates microspheres that allow to vitrify the polished cement surface by mechanical friction means, providing the pavement a glossy or satin aspect.

- Protective treatment for pavements previously treated with **MAXCLEAR HARDENER LITHIUM**, providing a glossy appearance.
- Use in concrete pavement to increase the wearing resistance, chemical resistance and impart a dust-proofing finish for industrial floors, parking, hospitals, sport centres, warehouses, ramps, etc.










# RESIN-BASED FLOORING SYSTEMS

## FLOORING SYSTEMS FOR VERY URGENT USES AND/OR LOW TEMPERATURE APPLICATIONS

### MAXFLOOR® MMA

Very fast curing, methyl methacrylate (MMA) flooring system for finishing and protection of pavements.



#### ADVANTAGES FOR THE SYSTEM

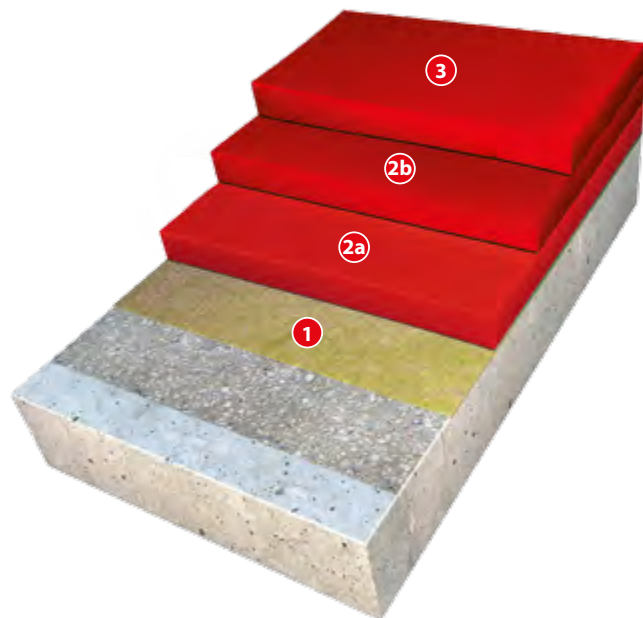
-  **QUICK** Rapid installation. Very fast setting and return to service: 2 hours (1 hour for MAXPATCH® MC).
-  **COOL** Suitable for applications at very low temperatures (from -30°C to 30°C).
-  Excellent resistance to a wide range of chemicals.
-  **High toughness, durability, resilience, and resistance to impact or abrasion: ramps, turns, etc.**
-  **Strong and permanent adherence to concrete substrate.**
-  **Waterproofness to liquids.**
-  **NO** Great resistance to cracking.
-  **EASY** Easy to apply. Hygienic and easy to clean surfaces.



Wide range for aesthetic options = smooth, anti-slippery, and decorative finishing

### MAXFLOOR® MMA SYSTEM

<b>1</b>	<b>MAXFLOOR® MMA -P</b> <b>MAXFLOOR® MMA -PW</b> (Suitable for damp substrate) Consumption: 0,3-0,5 kg/m <sup>2</sup>		
 1 hour			
<b>2</b>	<b>MAXFLOOR® MMA -B</b> <b>MAXFLOOR® MMA -BD</b> (Flexible version)		
	<b>Smooth finishing</b>	<b>Anti-slippery finishing</b>	<b>Fluid mortar</b>
<b>Base</b>	0,5 kg/m <sup>2</sup> x 2 coats	<b>2a</b> 1 <sup>st</sup> coat 0,5 - 0,6 kg/m <sup>2</sup> + <b>DRIZORO® SILICA 0204/0308</b> (dusting) <b>2b</b> + 2 <sup>nd</sup> coat 0,5 - 0,6 kg/m <sup>2</sup>	Mixing ratio = 1:2 <b>MAXFLOOR® FILLER.</b> 0,6 kg/m <sup>2</sup> * mm.
 1 hour			
<b>3</b>	<b>MAXFLOOR® MMA -F</b> <b>MAXFLOOR® MMA -FH</b> (Suitable for hot cleaning methods) Consumption: 0,25-0,30 kg/m <sup>2</sup> per coat, in 1 or 2 coats		
<b>Finishing</b>			



### AESTHETIC FINISHING WITH MAXEPOX® COLOR



WELL-GRADED GRANULOMETRY, DRY AND COLOURED SILICA SAND (AVAILABLE IN 8 DIFFERENT COLOURS)



# RESIN-BASED FLOORING SYSTEMS

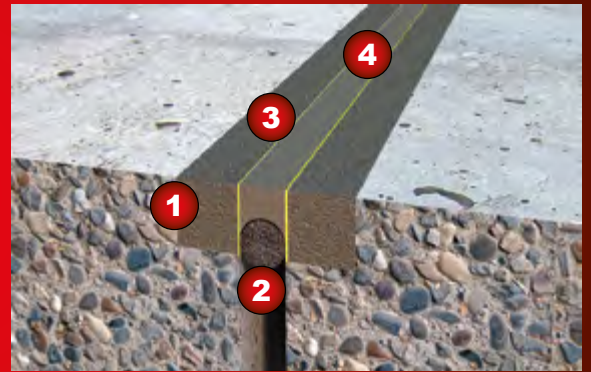
## MAXFLEX® MMA

### LOW MODULUS, MMA-BASED ELASTOMERIC JOINT SEALANT WITH FAST OPENING TO TRAFFIC

One-component, fluid-grade consistency, methyl-methacrylate-based joint sealant that cures chemically very fast providing an elastomeric sealant with low elasticity modulus, especially designed for sealing all kind of joints wherein a very urgent opening to traffic of the pavement is required (2 hours), even at low temperatures, i.e. -30°C.

#### JOINTS

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



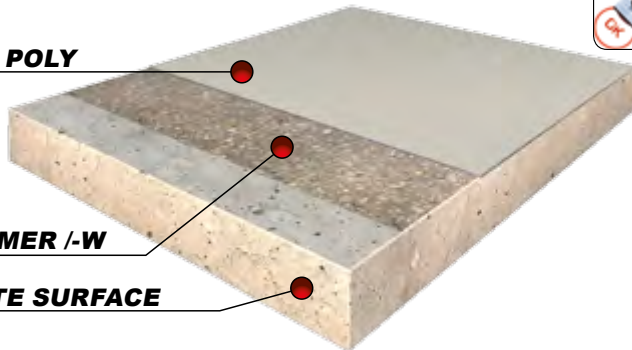
## COLD-APPLIED ALIPHATIC POLYUREA FLOORING SYSTEM

### MAXFLOOR® POLY SYSTEM

#### MAXFLOOR® POLY

Primer:  
**MAXEPOX® PRIMER /-W**

**CONCRETE SURFACE**



### ADVANTAGES FOR THE SYSTEM

- ✓ Extremely **FAST TRAFFIC TIME**: 3 hours pedestrian traffic and 4 hours wheel traffic. Minimize downtime and very quick opening to service.
- ✓ Allows a wide **RANGE OF APPLICATION METHODS**: single layer smooth coating, anti-slippery multilayer systems, (in colour or transparent finish), levelling mortar for small thickness, etc.
- ✓ **EXCELLENT ADHESION** on concrete, no specific bonding agents required.
- ✓ **EXCELLENT CHEMICAL RESISTANCE** against chemical compounds such as oils, greases, diesel, diluted acids, and alkalis, etc.
- ✓ Very high **ABRASION RESISTANCE** to wheel traffic, forklifts, industrial vehicles, etc.
- ✓ Excellent weathering and UV-rays resistant. Suitable for **OUTDOOR/INDOOR USE**.
- ✓ Provides an outstanding compact, continuous, and uniform anti-dust finish, with very **EASY CLEANING** and free maintenance.
- ✓ Environmentally friendly solution: Solvent-free, odourless, suitable for indoor use and poor ventilated areas.



## MAXFLOOR® POLY

**3-4 h Opening to traffic!!**

### COLD-APPLIED, ALIPHATIC POLYUREA COATING FOR CONCRETE FLOORS WITH VERY URGENT OPENING TO TRAFFIC

**MAXFLOOR® POLY** is a solvent-free, two-component, cold-applied aliphatic polyurea with high mechanical and chemical resistance properties, suitable for the protection and decorative finish of concrete pavements, when a very urgent opening to traffic is required (between 3 and 4 hours).

- Continuous levelling coating with high mechanical, abrasion, and chemical resistance properties, where a fast pedestrian/ wheel traffic time is required, in parking areas, warehouses, aircraft hangars, workshops, etc.
- Chemical and abrasion protection coatings on concrete floors where very quick hardening is required in food processing areas, pharmaceutical industries, chemical plants, and other manufacturing units.

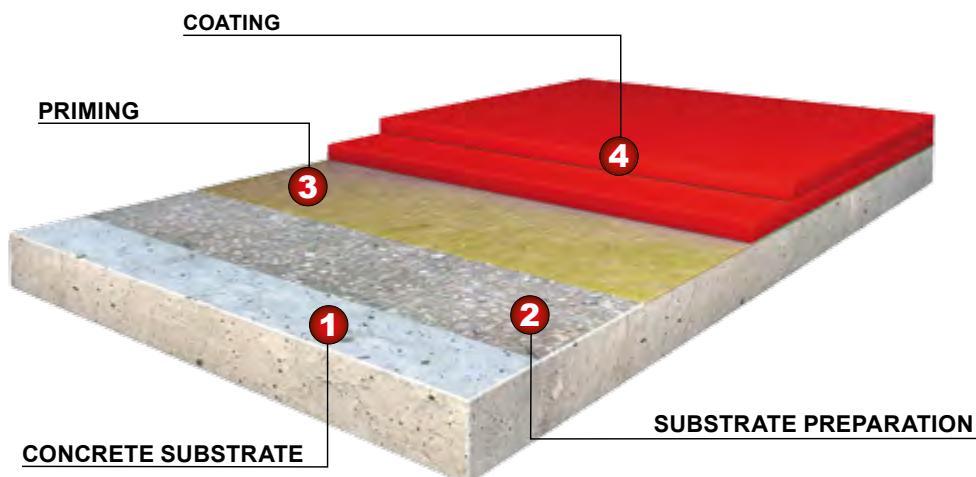
Product	Priming	TYPE	System
<b>MAXFLOOR® POLY</b>	Porous and dry substrates: <b>MAXEPOX® PRIMER/ MAXURETHANE® PRIMER</b> : 0,25-0,3 kg/m <sup>2</sup>	High-Build Floor Coating (HB-FC)	1x 0,5 - 0,6 kg/m <sup>2</sup>
	Low residual moisture substrates: <b>MAXEPOX® PRIMER -W</b> : 0,25-0,3 kg/m <sup>2</sup>	Multi-Layer Flooring (MLF)	1 <sup>st</sup> coat: 0,4 kg/m <sup>2</sup> <b>DRIZORO® SILICA</b> 2,0 - 2,5 kg/m <sup>2</sup> 2 <sup>nd</sup> coat: 0,2 - 0,4 kg/m <sup>2</sup>
	High-moisture substrates: <b>MAXEPOX® PRIMER WET</b> : 0,4-0,8 kg/m <sup>2</sup> <b>MAXPRIMER® WET</b> : 0,6 kg/m <sup>2</sup>	Floor Applied Flooring (FAF)	<b>MAXFLOOR® POLY + MAXEPOX® FILLER (1:0,7)</b> 1,7 kg/m <sup>2</sup> -mm Thickness: 1,5-2,0 mm



# 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 <sub>f</sub> s1
MAXEPOX® FLOOR	
MAXURETHANE® FLOOR	

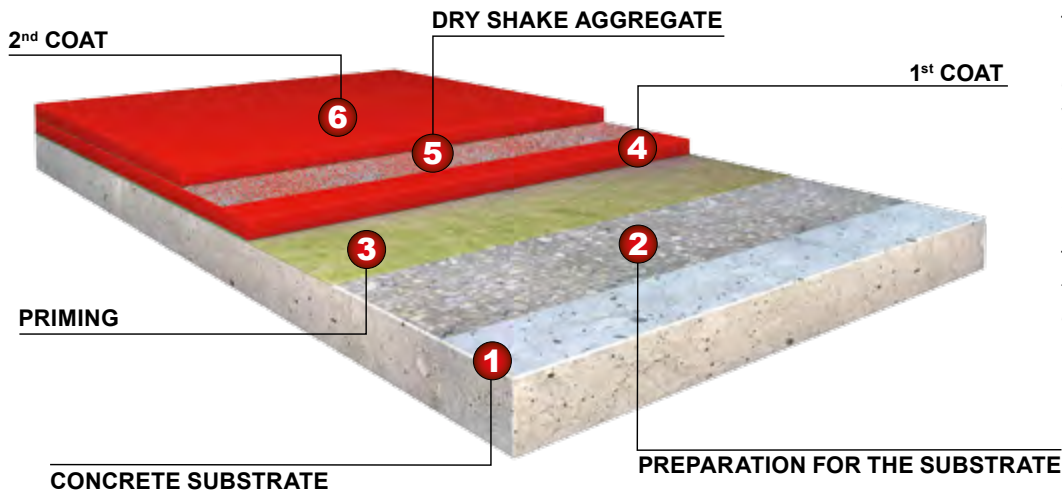
	PRODUCT	Type	Priming (kg/m <sup>2</sup> )	1 <sup>st</sup> Coat (kg/m <sup>2</sup> )	2 <sup>nd</sup> Coat (kg/m <sup>2</sup> )
Others	MAXFLOOR® SPORT	FC	Porous substrates: 5-10% water: 0,25-0,3	0,25-0,3	Optional 0,2-0,3
	MAXFLOOR®	FC	Porous substrates: 5% water: 0,2-0,3	0,2-0,3	Optional 0,2-0,3
Epoxy-based resin (1)	MAXEPOX® FLEX	HB-FC	Porous and dry substrates: MAXEPOX® PRIMER 0,25-0,3	0,3-0,35	0,3-0,35
	MAXEPOX® ELASTIC	HB-FC	Low residual moisture substrates: MAXEPOX® PRIMER-W: 0,25-0,3	0,4-0,5	0,4-0,5
	MAXEPOX® FLOOR	HB-FC	High-moisture substrates: MAXEPOX® PRIMER WET: 0,4-0,8 MAXPRIMER® WET: 0,6	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® 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
	MAXURETHANE® BIO-HYGIENE	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
	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® -W	FC	MAXEPOX® PRIMER -W: 0,25-0,3	0,2-0,25	0,2-0,25
	MAXURETHANE® 2C-W	FC	Porous and dry substrates: MAXURETHANE® 2C-W: 0,1-0,15 Low residual moisture substrates: MAXEPOX® PRIMER -W: 0,25-0,3	0,2-0,25	0,2-0,25

(1) For exterior applications, all systems can be finished with a coloured and UV-protective coating such as MAXURETHANE® 2C. 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 <sup>(1)</sup>	Sliding floor classification	Type	Priming (kg/m <sup>2</sup> )	1 <sup>st</sup> Coat (kg/m <sup>2</sup> )	Dry Shake Aggregate	2 <sup>nd</sup> Coat (kg/m <sup>2</sup> )
Epoxy-based resin <sup>(1)</sup>	MAXFLOOR®	3	FC	Porous substrates: 5% water: 0,2-0,3	0,25-0,35	<b>DRIZORO® SILICA</b> <b>0204:</b> Medium texture <b>0308:</b> Rough texture  <b>MAXEPOX® COLOR<sup>2)</sup></b> 1,0-1,5 kg/m <sup>2</sup>	0,25-0,35
	MAXEPOX® FLEX	2	HB-FC	Porous and dry substrates: <b>MAXEPOX® PRIMER:</b> 0,25-0,3 Low residual moisture substrates: <b>MAXEPOX® PRIMER-W:</b> 0,25-0,3	0,5-0,6		0,5-0,6
	MAXEPOX® FLOOR	2-3	HB-FC	High-moisture substrates: <b>MAXEPOX® PRIMER WET:</b> 0,4-0,8 <b>MAXPRIMER® WET:</b> 0,6	0,5-0,6		0,5-0,6
Polyurethane-based resin	MAXURETHANE® <sup>(1)</sup>	3	FC	Porous and dry substrates: 30% <b>MAXSOLVENT®:</b> 0,2	0,1		0,2-0,25
	MAXURETHANE® FLOOR <sup>(1)</sup>	2	HB-FC	Porous and dry substrates: <b>MAXEPOX® PRIMER / MAXURETHANE® PRIMER:</b> 0,25-0,3 Low residual moisture substrates: <b>MAXEPOX® PRIMER-W:</b> 0,25-0,3	0,5-0,6		0,5-0,6
	MAXURETHANE® BIO-HYGIENE	2	HB-FC	Porous and dry substrates: <b>MAXEPOX® PRIMER / MAXURETHANE® PRIMER:</b> 0,25-0,3 Low residual moisture substrates: <b>MAXEPOX® PRIMER-W:</b> 0,25-0,3	0,5-0,6		0,5-0,6
	MAXURETHANE® TOP	3	FC	Porous and dry substrates: 50% <b>MAXSOLVENT®:</b> 0,2	0,1		0,2-0,25
	MAXURETHANE® 2C	3	FC	Porous and dry substrates: 10-15% <b>MAXURETHANE® 2C SOLVENT:</b> 0,2	0,2-0,25		0,2-0,25
	MAXURETHANE® -W	3	FC	<b>MAXEPOX® PRIMER-W:</b> 0,25-0,3	0,2-0,25		0,2-0,25
	MAXURETHANE® 2C-W	3	FC	Porous and dry substrates: <b>MAXURETHANE® 2C-W:</b> 0,1-0,15 Low residual moisture substrates: <b>MAXEPOX® PRIMER-W:</b> 0,25-0,3	0,2-0,25		0,2-0,25

(1) For exterior applications, all systems can be finished with a coloured and UV-protective coating such as **MAXURETHANE® 2C**.  
**MAXEPOX® ELASTIC:** Priming and base suitable for flooring subjected to expansion, vibrations or high-risk of stress cracking.



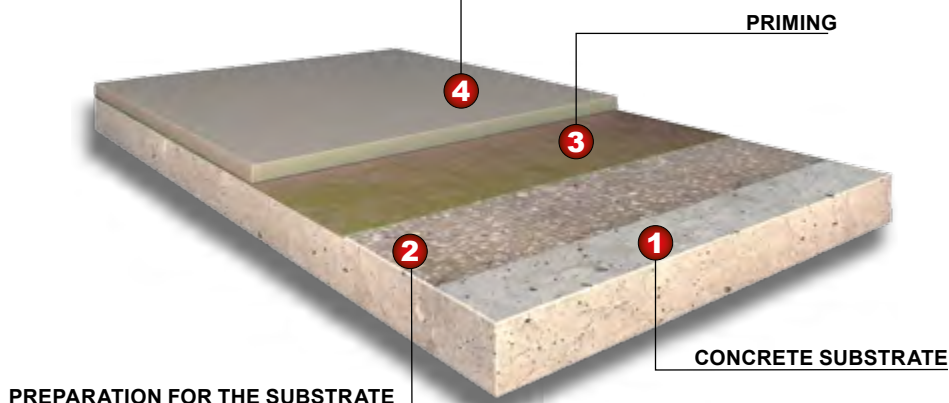


# RESIN-BASED FLOORING SYSTEMS

## 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.

### FLOW APPLIED FLOORING / SELF-LEVEL MORTAR



PRODUCT <sup>(1)</sup>		Priming (kg/m <sup>2</sup> )	Aggregates & Mixing Ratio (w:w)	Thickness & Consumption
Epoxy-based resin <sup>(1)</sup>	<b>MAXEPOX® FLEX</b>	Porous and dry substrates: <b>MAXEPOX® PRIMER</b> 0,25-0,3 kg/m <sup>2</sup>	<b>DRIZORO® SILICA 0204</b> (A+B):C = 1:1	1,0-2,0 mm 2,0 kg/m <sup>2</sup> ·mm
	<b>MAXEPOX® 3000</b>	Low residual moisture substrates: <b>MAXEPOX® PRIMER -W:</b> 0,25-0,3 kg/m <sup>2</sup>	30 kg pre-weight set A:B:C = 6,8:3,2:20	2,0-3,0 mm 1,7 kg/m <sup>2</sup> ·mm
	<b>MAXEPOX® FLOOR</b>	High-moisture substrates <b>MAXEPOX® PRIMER WET:</b> 0,4-0,8 kg/m <sup>2</sup> <b>MAXPRIMER® WET:</b> 0,6 kg/m <sup>2</sup>	<b>DRIZORO® SILICA 0204</b> (A+B):C = 1:1 / 1:0,7	1,0-2,0 mm 2,0 kg/m <sup>2</sup> ·mm
Polyurethane-based resin <sup>(1)</sup>	<b>MAXURETHANE® FLOOR<sup>(1)</sup></b>	Porous and dry substrates: <b>MAXEPOX® PRIMER</b> 0,25-0,3 kg/m <sup>2</sup> <b>MAXURETHANE® PRIMER</b> 0,25-0,3 kg/m <sup>2</sup>	<b>DRIZORO® SILICA 0204</b> (A+B):C = 1:1 / 1:0,7	1,0-2,0 mm 1,6 kg/m <sup>2</sup> ·mm
	<b>MAXURETHANE® BIO-HYGIENE</b>	Low residual moisture substrates: <b>MAXEPOX® PRIMER -W:</b> 0,25-0,3 kg/m <sup>2</sup>	<b>DRIZORO® SILICA 0204</b> (A+B):C = 1:1 / 1:0,7	1,0-2,0 mm 1,6 kg/m <sup>2</sup> ·mm
		High-moisture substrates: <b>MAXEPOX® PRIMER WET:</b> 0,4-0,8 kg/m <sup>2</sup> <b>MAXPRIMER® WET:</b> 0,6 kg/m <sup>2</sup>		

(1) For exterior applications, all systems can be finished with a coloured and UV-protective coating such as **MAXURETHANE® 2C**.  
**MAXEPOX® ELASTIC:** Priming and base suitable for flooring subjected to expansion, vibrations or high-risk of stress cracking.



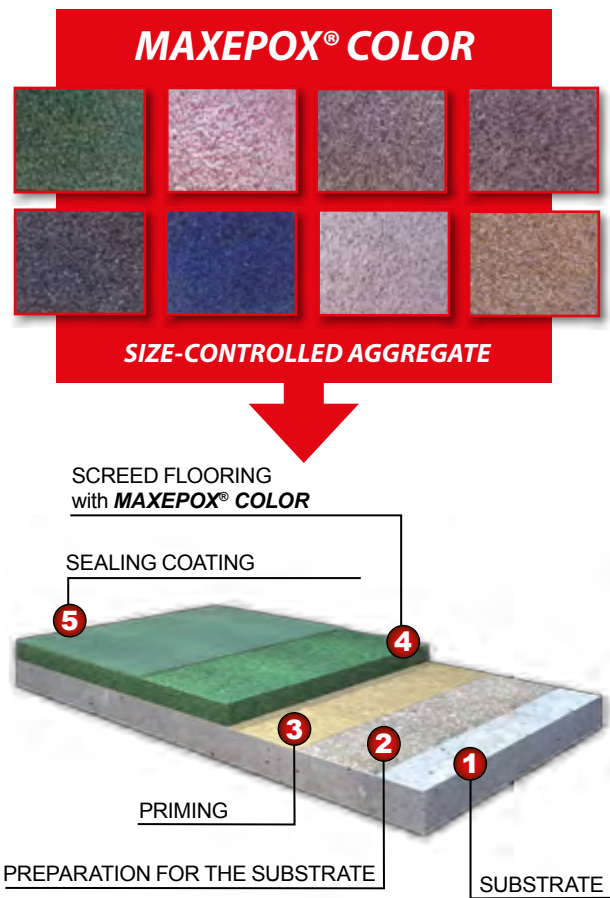


# RESIN-BASED FLOORING SYSTEMS

## 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 inevitably be slight variations in the surface appearance from trowelling.

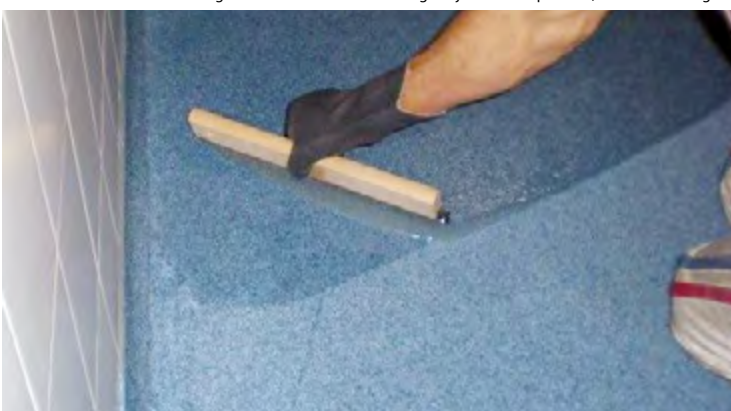
Trowel-applied resin flooring provides a durable slip resistant floor surface. If a more hygienic surface is required, use one or two coat application of a compatible resin, much of which is absorbed into the trowel applied flooring sealer applied. This may be either a solvent-free or solvent-coating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



PRODUCT		Priming (kg/m <sup>2</sup> )	Aggregates & Mixing Ratio (w:w)	Thickness & Consumption
Epoxy-based resin <sup>(1)</sup>	<b>MAXEPOX® MORTER</b>	Porous and dry substrates: <b>MAXEPOX® PRIMER</b> 0,25-0,3 kg/m <sup>2</sup> Low residual moisture substrates: <b>MAXEPOX® PRIMER -W</b> : 0,25-0,3 kg/m <sup>2</sup>	<b>DRIZORO® SILICA 0308/1020/0204</b> <b>MAXEPOX® COLOR</b> <sup>(2)</sup> (A+B):C = 1:5 a 1:6 - 1:10	2,0-10,0 mm 2,0-2,1 kg/m <sup>2</sup> ·mm
	<b>MAXEPOX® FLOOR</b>	High-moisture substrates: <b>MAXEPOX® PRIMER WET</b> : 0,4-0,8 kg/m <sup>2</sup> <b>MAXPRIMER® WET</b> : 0,6 kg/m <sup>2</sup>		
Polyurethane-based resin	<b>MAXURETHANE® FLOOR</b> <sup>(1)</sup>	Porous and dry substrates: <b>MAXEPOX® PRIMER</b> 0,25-0,3 kg/m <sup>2</sup> <b>MAXURETHANE® PRIMER</b> 0,25-0,3 kg/m <sup>2</sup>	<b>DRIZORO® SILICA 0308</b> (A+B):C = 1:3	3,0-10,0 mm 1,9 kg/m <sup>2</sup> ·mm
	<b>MAXURETHANE® BIO-HYGIENE</b> <sup>(1)</sup>	Low residual moisture substrates: <b>MAXEPOX® PRIMER -W</b> : 0,25-0,3 kg/m <sup>2</sup>	<b>DRIZORO® SILICA 0308</b> (A+B):C = 1:3	3,0-10,0 mm 1,9 kg / m <sup>2</sup> ·mm
	<b>MAXURETHANE® PAV</b>	High-moisture substrates: <b>MAXEPOX® PRIMER WET</b> : 0,4-0,8 kg/m <sup>2</sup> <b>MAXPRIMER® WET</b> : 0,6 kg/m <sup>2</sup>	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) For exterior applications, all systems can be finished with a coloured and UV-protective coating such as **MAXURETHANE® 2C**.

(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 base suitable for flooring subjected to expansion, vibrations or high-risk of stress cracking.



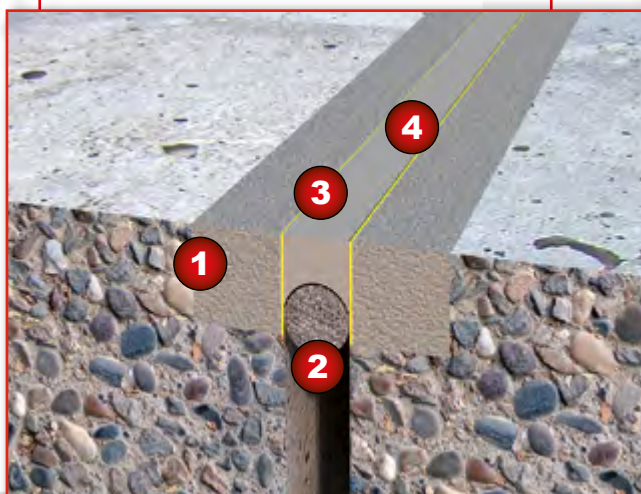
### POLYURETHANE SEALANTS

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.

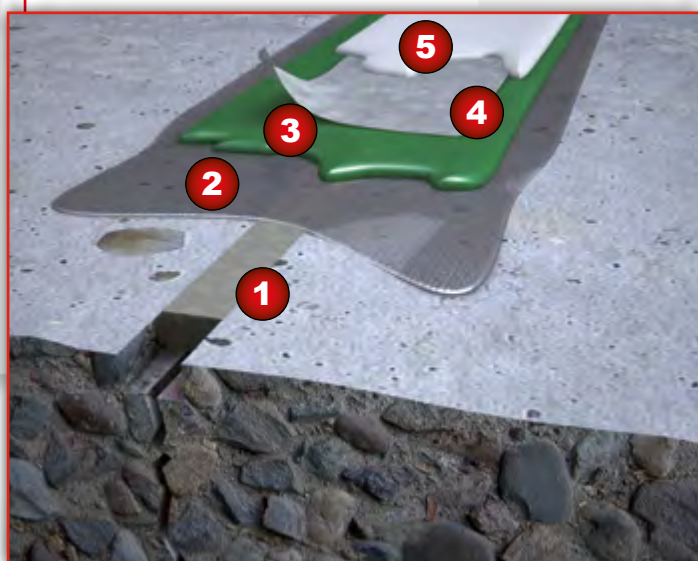
**MAXFLEX® 800**

### JOINTS

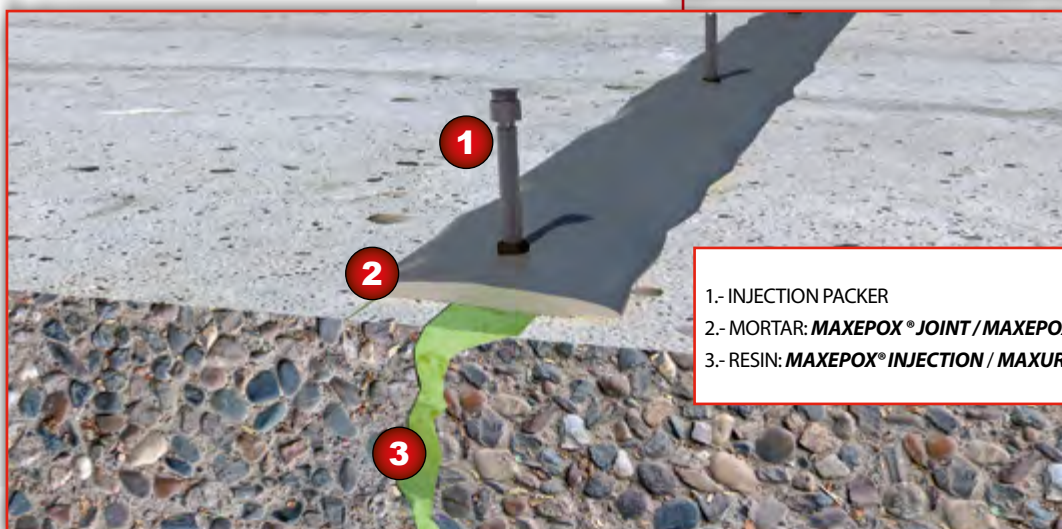


- 1.- REPAIR MORTAR: **MAXEPOX® REPAIR/MAXEPOX® MORTER/ MAXGROUT®**
- 2.- BACKING ROD: **MAXCEL®**
- 3.- PRIMING: **PRIMER® 1**
- 4.- SEALANT: **MAXFLEX® 800**

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



### CRACKS



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

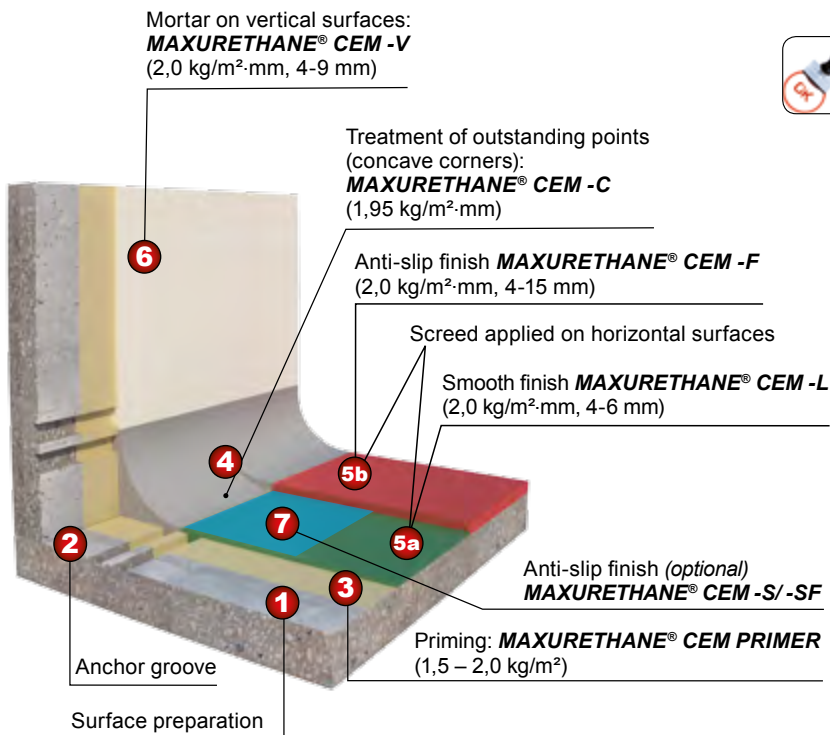
**MAXEPOX® INJECTION**

**MAXURETHANE® INJECTION -LV**



# MAXURETHANE® CEM SYSTEM

## CEMENT AND POLYURETHANE FLOORING SYSTEM OF HIGH PERFORMANCE



### 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 as 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 <sup>(1)</sup>	Use	Priming (kg/m <sup>2</sup> )	Aggregates & Mixing Ratio (w:w)	Thickness & Consumption
<b>MAXURETHANE® CEM-L</b>	Horizontal – Fluid	Porous and dry substrates: <b>MAXURETHANE® CEM PRIMER</b> 1,5-2,0	A:B:C= 4,92:5,78:25	4,0 - 6,0 mm 2,0 kg/m <sup>2</sup> ·mm
<b>MAXURETHANE® CEM-F</b>	Horizontal – Trowel-applied		A:B:C= 2,73:3,21:25,5	4,0 - 15,0 mm 2,0 kg/m <sup>2</sup> ·mm
<b>MAXURETHANE® CEM-V</b>	Vertical	1,5-2,0	A:B:C= 2,75:3,24:25	3,0 - 10,0 mm 2,0 kg/m <sup>2</sup> ·mm
<b>MAXURETHANE® CEM-C</b>	Corners and outstanding points		A:B:C= 2,71:3,21:25	3,0 - 20,0 mm 2,0 kg/m <sup>2</sup> ·mm
<b>MAXURETHANE® CEM-S</b>	Top coating		A:B:C = 7,5:8,8:25	0,8-1,0 kg/m <sup>2</sup>
<b>MAXURETHANE® CEM-SF</b>	Top coating		A:B:C = 7,5:8,8:10	0,5-0,6 kg/m <sup>2</sup>

(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

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.

CE **MAXURETHANE® CEM-F**



### FLOW APPLIED FLOORING (FAF)

#### POLYURETHANE-CEMENT FLUID MORTAR WITH SMOOTH FINISH

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



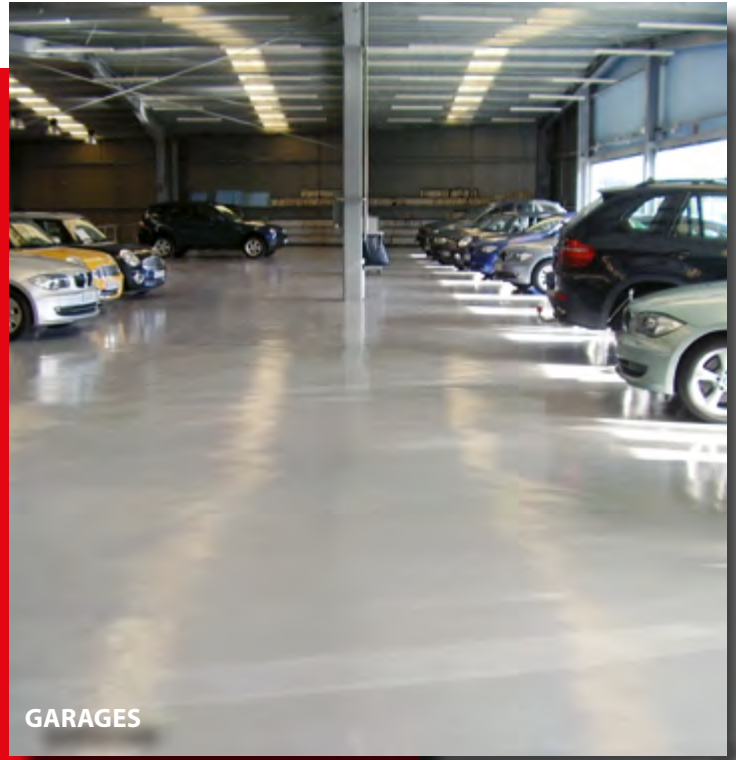
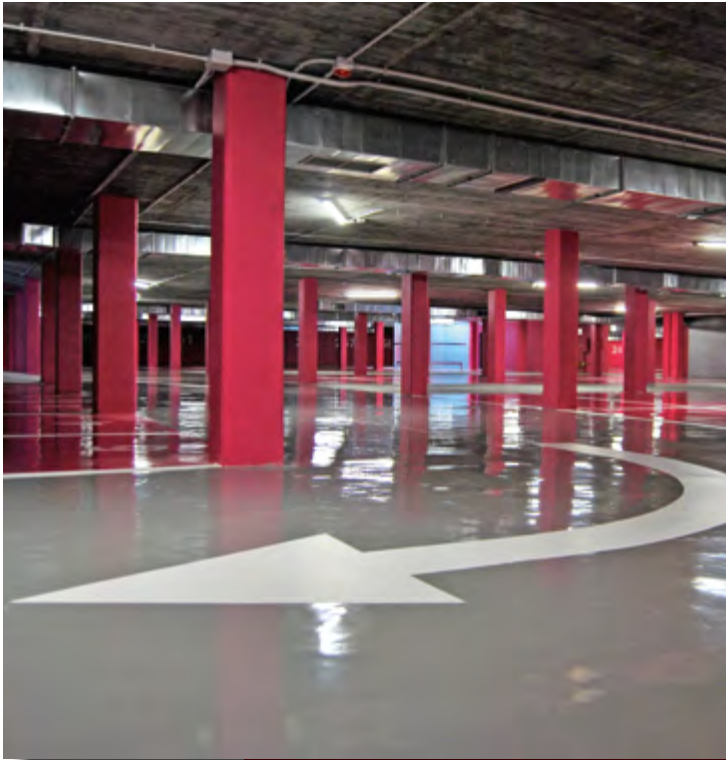
- Applied by spreading evenly over the surface, using a serrated trowel, pin rake or squeegee.
- Use a spiked roller to release any entrapped air and assist in smoothing out.

CE **MAXURETHANE® CEM-L**

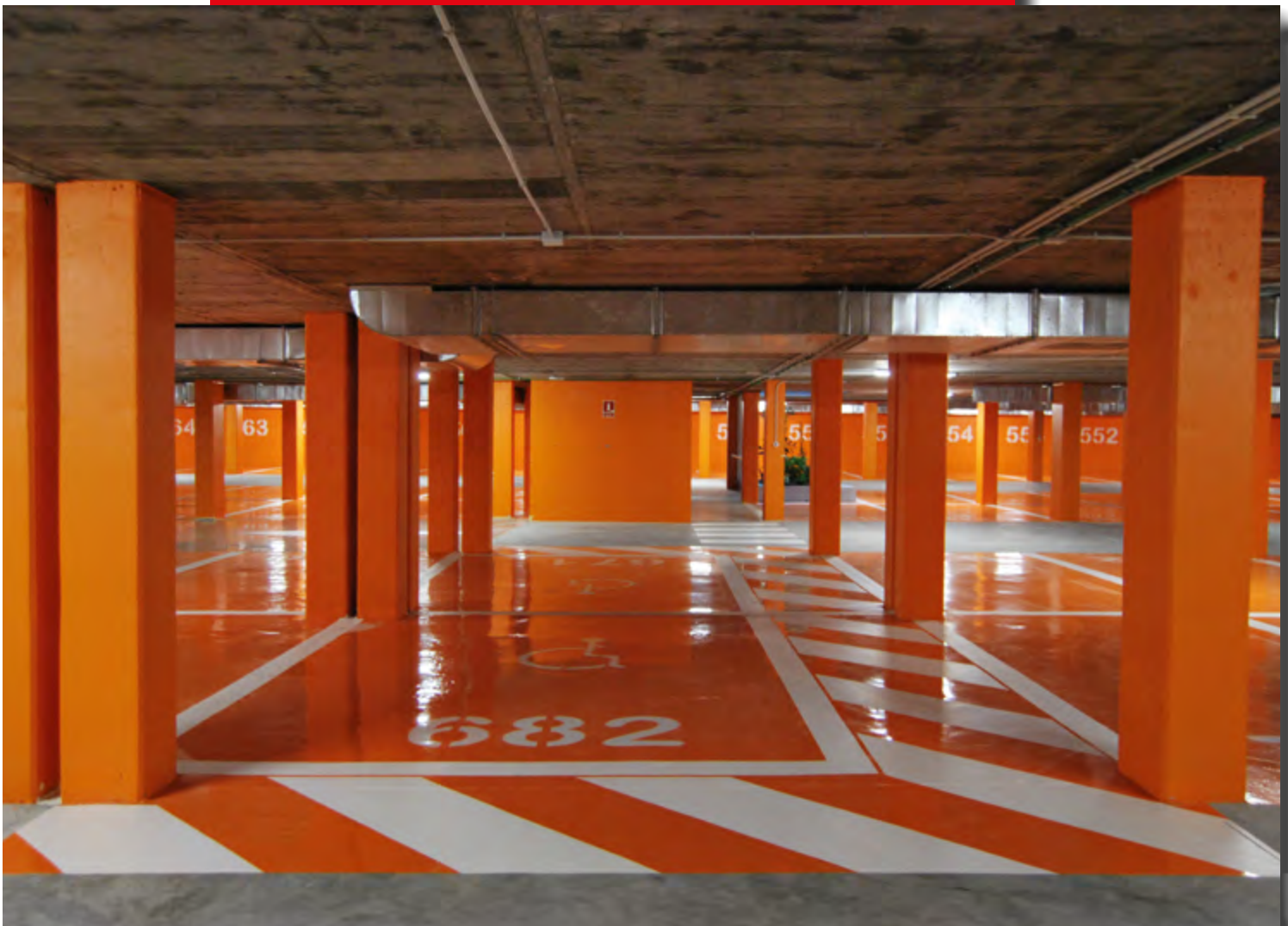


# APPLICATION FIELDS

## PARKING

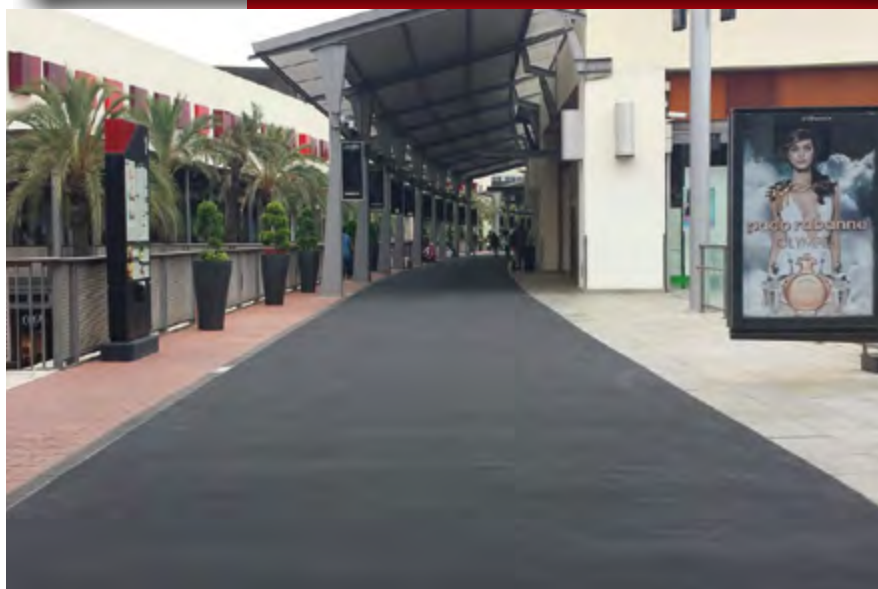


GARAGES



# APPLICATION FIELDS

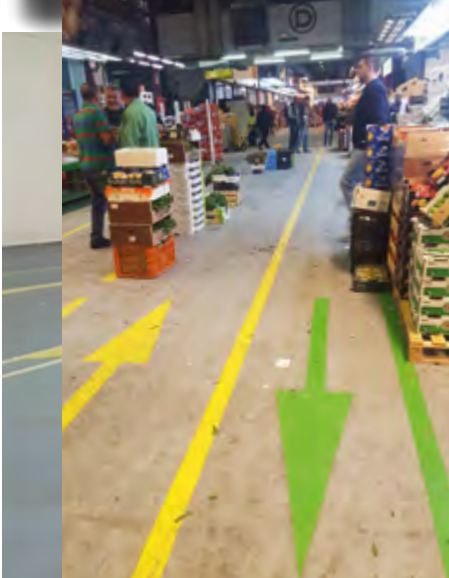
## PLAYGROUND / COMMERCIAL AREA





# APPLICATION FIELDS

**CHEMICAL INDUSTRY / FOOD INDUSTRY / LOGISTIC**





# 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		<b>MAXPATCH®</b>	Two component, cement-based patching mortar for application thickness from 5 to 25 mm.	●	●	●	●								
		<b>MAXROAD®</b>	Fast-setting, one-component, cement-based patching mortar for application thickness from 30 to 50 mm. Placing into service in 2 hours.	●	●	●	●								
		<b>MAXPATCH® MC</b>	High performance, fast setting repair, methacrylate-based resin mortar for very urgent repairs of pavements and low temperature use.	●	●	●	●			●					
		<b>MAXFLOW®</b>	Two-component, high strength, cement-based, fiber-reinforced, repair finishing and self-levelling mortar for exterior applications from 3 to 8 mm.	●	●		●						●		
		<b>MAXLEVEL® SUPER</b>	Fast-setting, one-component, synthetic resin-modified cement-based, self-levelling mortar for underlayment for interior applications.	●			●						●	●	●
		<b>MAXLEVEL® -30</b>	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.	●			●						●	●	●
		<b>MAXLEVEL® SILENT</b>	One-component self-levelling mortar, based on polymer-modified cement for acoustic and thermal isolation.										●		
		<b>MAXMORTER® FLOOR</b>	Fast-setting, polymer-modified cement-based binder for thickness increasing and repair of concrete surfaces and floors.	●									●	●	●
OTHERS		<b>MAXRITE® -S</b>	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.	●	●	●	●					●	●	●	
		<b>MAXCLEAR® HARDENER</b>	Hardener and dust-proofer for concrete surfaces and cement mortars.	●	●		●								
		<b>MAXCLEAR® HARDENER LITHIUM -/F</b>	Liquid applied, lithium silicate-based surface hardener/sealer/dust proofer for protection and finishing of concrete surfaces and cement-based mortars. -F version: glossy finish.	●	●		●								
		<b>MAXDUR®</b>	Coloured, aggregate and cement-based, dry shake surface hardener, sealer and dust-proofer for green concrete. Available in different colours.	●	●		●								
EPOXY RESIN		<b>MAXFLOOR® SPORT SYSTEM</b>	Protective and decorative acrylic coating for indoor and outdoor pavements.	●	●										
		<b>MAXFLOOR®</b>	Water-dispersed epoxy, protective and decorative coating for horizontal surfaces.	●			●						●	●	●
		<b>MAXEPOX® FLEX</b>	Two-component, solvent-free, flexible and waterproof epoxy formulation suitable for use on concrete and metal substrates.	●			●	●			●		●	●	●
		<b>MAXEPOX® 3000</b>	Three component, epoxy based, self-levelling and decorative mortar with high performance for concrete surfaces and floors up to 3 mm.	●									●	●	●
		<b>MAXEPOX® FLOOR</b>	High performance and protective epoxy-based binder for self-levelling mortars, trowelable mortars, coatings and other multilayer flooring systems.	●			●						●	●	●
		<b>MAXEPOX® MORTER</b>	Two-component formula composed of pigmented, epoxy-modified resins, especially designed for multilayer pavements.	●		●							●	●	●
POLYURETHANE RESIN		<b>MAXEPOX® ELASTIC</b>	Transparent and elastic epoxy resin for sealing joints, trowel-grade mortars and elastic coatings for pavements.	●	●		●	●				●	●	●	
		<b>MAXURETHANE®</b>	Clear, one-component, solvent-based polyurethane, protective floor coating with exceptional chemical resistance for interior applications.	●			●	●	●	●	●	●	●	●	●
		<b>MAXURETHANE® FLOOR</b>	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.	●			●	●	●	●	●	●	●	●	●
		<b>MAXURETHANE® BIO-HYGIENE</b>	Two-component, solvent-free, polyurethane binder with virucidal and antibacterial performance for hygienic flooring system	●			●	●	●	●	●	●	●	●	●
		<b>MAXURETHANE® TOP</b>	One-component, high weathering resistant, elastic, clear aliphatic polyurethane-based, protective coating for interior and exterior applications.	●	●		●						●	●	●
		<b>MAXURETHANE® 2C</b>	Two component, high weathering resistant, aliphatic polyurethane-based, protective coating for interior and exterior applications.	●	●	●	●	●	●				●	●	●
		<b>MAXURETHANE® -W</b>	One-component, water-based aliphatic polyurethane protective coating for for both indoor and outdoor applications	●	●	●	●			●			●	●	●
		<b>MAXURETHANE® 2C -W</b>	Two-component, water-based aliphatic polyurethane protective coating for for interior and exterior applications	●	●	●	●			●			●	●	●
		<b>MAXURETHANE® PAV</b>	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		<b>MAXURETHANE® CEM -F</b>	Trowel applied polyurethane-cement mortar for anti-slip pavements with high chemical and mechanical performances from 4 to 15 mm thickness.				●		●	●					
		<b>MAXURETHANE® CEM -L</b>	Fluid polyurethane-cement mortar designed to provide high performance smooth pavements between 4 to 6 mm thickness.				●		●	●					
		<b>MAXURETHANE CEM -S</b>	Polyurethane-cement based coating for sealing of <b>MAXURETHANE® CEM</b> system. Available in 4 different colours.				●	●	●	●					
MMA		<b>MAXFLOOR® MMA -P/-B/-F</b>	High-performance, methyl-methacrylate (MMA) reactive resin system with low viscosity and very fast curing, suitable for applications at low temperature for coatings, slip resistance (multi-layered) flooring systems and fluid mortars of concrete pavements.	●	●	●	●			●					
		<b>MAXFLEX® MMA</b>	Low modulus, methyl-methacrylate elastomeric sealant for very fast putting into service.	●	●	●	●			●					
POLYUREA		<b>MAXFLOOR® POLY</b>	High-performance, cold-applied, two-component, solvent-free aliphatic polyurea resin system with very fast curing for coatings, slip resistance (multi-layered) flooring systems and fluid mortars of concrete pavements.	●	●	●	●	●	●			●	●	●	
EPOXI-CEMENT		<b>MAXFLOOR® CEM</b>	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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