DRIZORO® Construction Products

MAXPATCH® POOL

DECORATIVE CEMENT MORTAR WITH EXPOSED COLOUR QUARTZ AGGREGATES FOR FINISHING SWIMMING-POOLS AND FLOORS

DESCRIPTION

MAXPATCH® POOL is a one-component mortar composed of cements, pure silica, and colour quartz aggregates with special additives, designed for finishing and decoration of swimming-pools, fountains and artificial lakes.

Once applied, it provides a monolithic, mineral, and natural finish of the swimming-pool with colour quartz exposed, available in several colours.

Allows application also on pavements and concrete floors as a monolithic cementitious terrazzo finish, either with polished smooth finish or by washed terrazzo technique with anti-slip textured finish.

APPLICATION FIELDS

- Decorative finish of swimming-pools, fountains, artificial lakes, waterfalls and any type of water retaining structure.
- Water retaining structures in aquariums, water parks, theme parks, etc.
- Renovation projects on old swimming-pools with ceramic tiles, where a natural look is desired.
- Decorative floors around swimming pools, pool decks, trafficable solarium areas, etc, in order to match the same appearance.
- Decorative floors and pavements with cementitious terrazzo finish, such as in residential areas, pedestrian squares, walking paths, shopping malls, hotel lobbies, corporate offices, etc.

ADVANTAGES

- Total UV-resistance with long-term colour stability and no yellowing process.
- Very good durability in seacoast environment, resistant to chloride and marine water. No maintenance required.
- Decorative and natural finishing, with a continuous seamless surface without joints or overlapping, avoiding the use of ceramic tiles, synthetic resins, and coatings, etc.
- Very good abrasion and wearing resistance on trafficable pedestrian area.
- Permeable to water vapour diffusion, it does not provide a vapour barrier.
- Excellent adhesion on substrate. No primer/bonging agent is required.
- Fully compatible with previous waterproofing cement coatings ***MAXSEAL® FLEX***, ***MAXSEAL® SUPER***, etc.
- One-component product only requires water for mixing.
- Easy and quick to apply by trowel or spray methods.
- Environmentally friendly: non-toxic, VOC´s-free and solvent-free product.

APPLICATION INSTRUCTIONS

Surface preparation

Substrate must be structurally sound, solid, without cement laitance. Surface must be clean and free of paints, coatings, efflorescence, loose particles, grease, oils, curing agents, form release agents, dust, gypsum plasters, organic growth or any other contaminants that may affect to adhesion.

Surface defects, voids, and static cracks without movement, once opened and routed to a minimum depth of 2,0 cm, must be repaired previously with ***MAXREST®*** (Technical Bulletin No. 2) to provide a sound and even surface.

Rebars and other metal elements exposed during the substrate preparation should be cleaned and passivated with ***MAXREST® PASSIVE*** (Technical Bulletin No. 12), while non-structural and surface iron elements must be cut to a depth of at least 2,0 cm and then covered with ***MAXREST®***.

Once substrate has been repaired and cleaned, it must be saturated thoroughly with water but do not leave free standing water before application. If it gets dry, proceed to saturate with water again.
For applications carry out on cement waterproofing coatings (***MAXSEAL® FLEX***, ***MAXSEAL® SUPER***,

etc), check the curing-time specified on each Technical Bulletin.

For optimal adhesion in applications on ***MAXSEAL®*** range waterproofing cementitious coatings and/or applications at high temperatures (above 30ºC), it is recommended to use a bonding slurry made from the same product, mixing 4 parts of ***MAXPATCH® POOL*** with 1 part of mixing liquid (***MAXCRYL®*** liquid additive and water in a 1:3 ratio).

Mixing
A 25 kg bag of ***MAXPATCH® POOL*** requires 5,0-5,5 l of potable clean water, depending on temperature conditions and application method.

For application with temperatures above 30ºC, to achieve a better smooth terrazzo finish using mechanical methods, we recommend adding 1,5 litres of ***MAXCRYL®*** liquid acrylic additive to the mixing water (4,0 litres of water + 1,5 litres of ***MAXCRYL®*** per bag of ***MAXPATCH® POOL***).

Pour the water in a clean container and add gradually ***MAXPATCH® POOL*** while mixing mechanically by a slow speed drill (400-600 rpm) for 3-5 minutes, until a workable consistency mortar with homogeneous colour and free of lumps is achieved. Keep always constant mixing water ratio, as variations in this ratio may produce slight differences in colour intensity.

Application
Apply ***MAXPATCH® POOL*** onto surface by metal trowel or plastic float in an even and continuous layer of 5 mm thickness.

For spray applications, keep constant water ratio and the same distance from nozzle to the surface. Use a suitable spray pump such as ***DRIZORO® PUMP M1***.
Finish and level surface with plastic float or metal trowel before mortar starts to set (about 20-30 minutes) depending on temperature conditions.

Finishing
When mortar has achieved its initial setting-time but not the final setting-time, and is able to withstand the pedestrian traffic, i.e., from 3 to 6 hours depending on temperature conditions, it can be rubbed surface with a hard hair Tampico broom (***MAXBROOM®***) or Tampico brush (***MAXBRUSH®***) while washing with water hose, to remove the cement laitance and get colour quartz aggregates exposed. Avoid an excessive water pressure that may damage the surface and remove the colour quartz from mortar matrix.

In case that finishing works cannot be made until following day and/or after the final setting-time of the mortar, an acid washing also can be made on surface to get the colour quartz exposed. Brush or spray the acid cleaner ***MAXCLEAN®*** or alternatively a 25% dilution of hydrochloride acid on mortar surface. Let the acid to act for 10-15 minutes, and then wash thoroughly the surface with water hose to ensure all traces of acid is removed. Rubbing together with ***MAXBROOM®*** or ***MAXBRUSH®*** will help to remove easier the cement laitance on surface.

After the washing acid procedures, use a wet polishing machine to finish works and enhance colour surface.

For a smooth terrazzo finish, apply the usual grinding and mechanical polishing procedures with diamond discs or wet phenolic discs (at a maximum of 3000 rpm) on ***MAXPATCH® POOL*** 3 to 4 days after application.

Application conditions
For applications at hot temperatures and/or windy conditions, i.e., summertime, surface must be wet thoroughly with plenty of water prior to application.

Prevent a quick drying of ***MAXPATCH® POOL*** and protect from direct sunlight when applying with hot temperatures (above 30°C). Plan the work in advance preferably on shadow areas, early morning or close to sunset.

Do not apply with temperatures above 35°C. Do not apply if substrate and/or ambient temperature is expected to be below 5°C in 24 h after application. Do not apply when rain is expected in 24 h after application.

Curing
Do not apply curing agents or wet surface after application.

In case of hot temperatures (above 30°C) and/ or windy conditions, protect application from direct sunlight with wet burlaps or sacks.

Allow ***MAXPATCH® POOL*** to cure for 3 days (20°C) and 50% R.H.) before water immersion. Lower temperature will increase the curing time.

Cleaning
All tools and equipment must be cleaned immediately with water after use. Once product hardens, this can only be removed by mechanical means.

CONSUMPTION

MAXPATCH® POOL is applied in a 5,0 mm thickness layer with an estimative consumption of 9,5 kg/m^2. This gives an average of 1,9 kg/m^2 per mm thickness.
This figure is for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on jobsite to ascertain the total consumption exactly.

PACKAGING

MAXPATCH® POOL is supplied in 25 kg bag. It is available in following 9 colours: Splashed blue, splashed green, splashed brown, pearl grey, granite grey, desert sand, beach ivory, venetian pink and see blue.

STORAGE

Twelve months in its unopened and undamaged original packaging. Store in a cool, dry, and covered place, protected from moisture, freezing and direct sunlight at temperatures above (5°C).

IMPORTANT INDICATIONS

- Do not add cement, additives, aggregates, or other compounds. Do not use leftovers from previous mixes.
- Use the recommended mixing ratios and thickness layer, otherwise risk of differences in colour intensity and appearance plastic cracks may happen.
- To restore the workability, remix the mortar again but never add more water. Mix and use. Do not mix more material than can be applied within 20-30 minutes.
- Do not apply on vitrified substrates or with water repellents. Do not apply on bituminous materials, wood, or paints.
- When applying over existing renders or screeds, proper compatibility, strength, and adhesion testing of the substrate must be ensured.
- For other uses not specified on this Technical Bulletin or further information consult the Technical Department.

SAFETY AND HEALTH

MAXPATCH® POOL is not a toxic product but is an abrasive composition. Avoid direct contact with skin, eyes and breathing dust. Use rubber gloves and safety goggles during application. In case of skin contact or eye contact, wash affected area thoroughly with clean water. If the irritation persists, seek medical assistance.

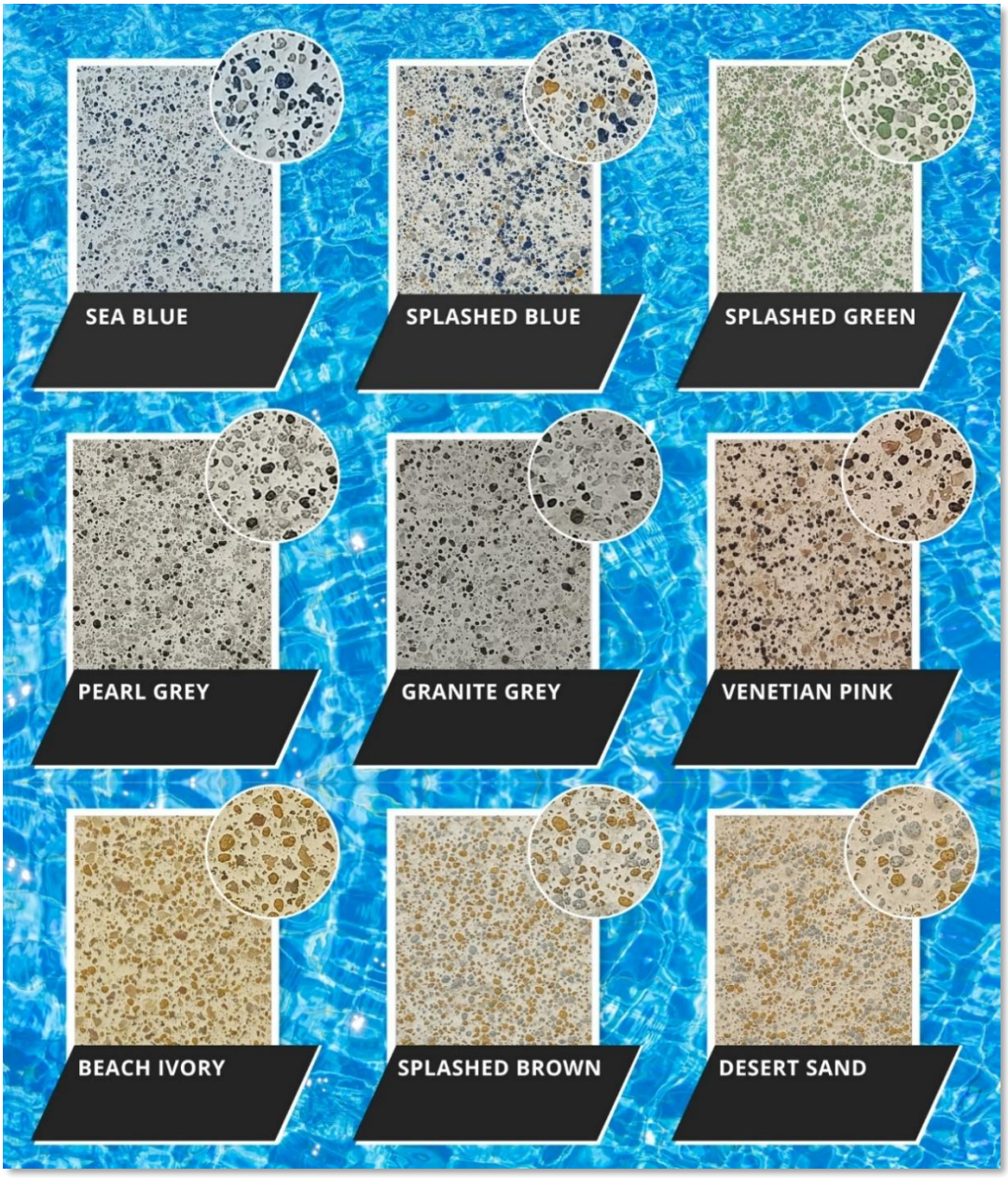
Consult the Material Safety Data Sheet for ***MAXPATCH® POOL*** for further details.

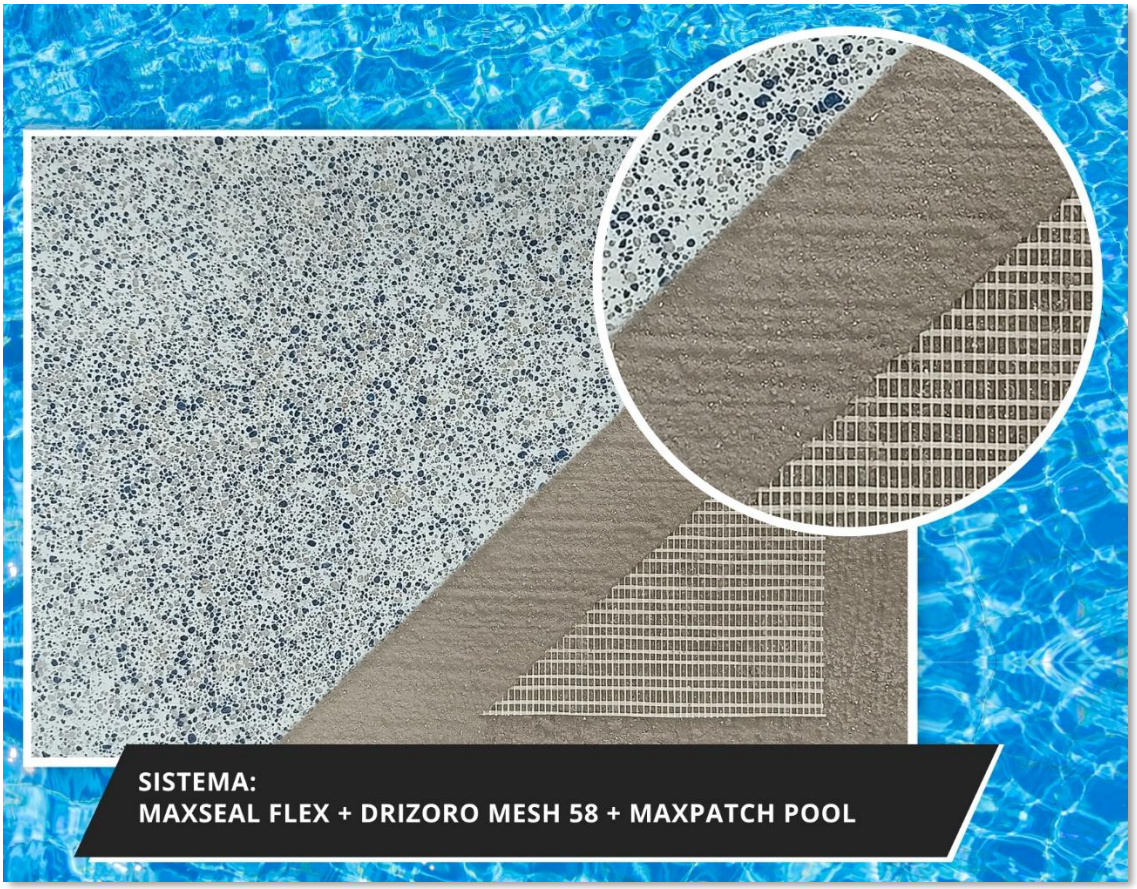
Disposal of the product and its packaging should be carried out according to the current official regulations and it is the responsibility of the final user of the product.

TECHNICAL DATA

Product characteristics	
General appearance and colour	Powder in different colour
Maximum aggregate size, (mm)	< 2,0
Density powder, (g/cm^3)	1,35 ± 0,10
Mixing water per bag	5,0 to 5,5 litres
Ratio water: ***MAXCRYL***® per bag for applications above 30ºC	4,0 l water:1,5 l ***MAXCRYL***®
Application and curing conditions	
Minimum/ Maximum application temperature, (°C)	>5 / <35
Curing time for water immersion at (20°C), (d)	3
Cured product characteristics	
Density of cured mortar, EN 1015-10, (g/cm^3)	1,9 ± 0,10
Compressive strength at 28 days, EN 1015-11, (MPa)	25
Flexural strength at 28 days, EN 1015-11, (MPa)	4,5
Adhesion on concrete, EN 1015-12, (MPa)	0,8
Reaction to fire, EN 13501-1 (Euroclass)	A1 (non-combustible)
Thickness / Consumption*	
Thickness per layer, (mm)	5,0
Total consumption per 5.0 mm thickness layer, (kg/m^2)	9,5

* This figure is for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on jobsite to ascertain the total consumption exactly.





GUARANTEE

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