



# MAXPATCH<sup>®</sup>-P



## DECORATIVE CEMENT MORTAR WITH NATURAL QUARTZ POLISHED FINISH FOR SWIMMING-POOLS AND FLOORS



### DESCRIPTION

**MAXPATCH<sup>®</sup>-P** is a two-component mortar, based on an acrylic resin component and a powder component composed of special cements, additives and natural quartz aggregates.

Once mixed, it provides a monolithic and decorative surface with natural quartz polished finish for swimming-pools.

Suitable also on floors and concrete pavements as a monolithic cementitious terrazzo finish, without joints or overlapping.

### APPLICATION FIELDS

- Decorative polished finish with natural quartz in swimming-pools, fountains, artificial lakes, waterfalls, etc.
- Semi-polished floors around swimming pools, pool decks, trafficable solarium areas, etc, matching the same appearance that water immersed areas.
- Decorative cementitious terrazzo finish on floors, in residential buildings, pedestrian squares, walking paths, shopping malls, hotels, museums, offices, etc.

## ADVANTAGES

- Allows different grades of polished or semi-polished finishes by using phenolic discs.
- Great aesthetic effect combining the different colour background of the cement mix with the natural quartz aggregates.
- Allows adding quartz aggregates, marble, or colour chips on the mix to enrich and customize decorative finishes.
- Durable and long-lasting finish, with very high abrasion and impact resistance. Suitable for indoor and outdoor area, UV-ray resistance, with colour stability unlike epoxy terrazzo.
- Provides a monolithic
- Applied areas can be opened to light traffic within 24 hours.
- Very good adhesion on all substrates, does not need primer.
- Solvent-free, non-flammable and environmentally friendly.
- Easy to use and good workability.

## 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 on cement waterproofing coatings (**MAXSEAL FLEX**, **MAXSEAL SUPER**, etc), check the curing-time specified on each Technical Bulletin.

### Mixing

**MAXPATCH® -P** is supplied as a two-component pre-weighed set. Pour 3,5–4,0 litres of liquid component A (depending on temperature conditions and workability required) into a clean container and then slowly add component B

powder **MAXPATCH® -P** on the liquid, mixing by a slow speed electric drill (400-600 rpm) fitted with a disc mixer, for about 2-3 minutes until achieving a lump-free and homogeneous colour mortar.

Add the enough mixing liquid to achieve a workable mortar but avoiding any excess which may cause lumps on vertical application, or bleeding/segregation of the fresh mix.

Mix only the amount of **MAXPATCH® -P** that can be place in 20 minutes. After this time, mortar will have started its setting and will no longer be workable. If necessary, remix to keep the workability of the fresh mortar but do not add more water.

### Application

For an optimum adhesion prepare bonding slurry with the same product, mixing 5 parts of powder component B and 1 part of liquid component A, until achieving a homogeneous mortar consistency without any lumps. Apply the bonding slurry on the surface by brush **MAXBRUSH®** or broom **MAXBROOM®**.

When bonding slurry begins to lose brightness but is still fresh (within 5 – 10 minutes), start application of **MAXPATCH® -P** with its usual consistency by trowel or straightedge on thickness layers between 8 – 10 mm. Do not overwork the surface with metal trowel once applied, to avoid risk of possible cracks.

Adding of quartz aggregates, marble or colour chips at job-site with different dosages is allowed depending on particle size and aesthetic required. A preliminary test is mandatory to adjust proper dosage and avoid negative secondary effects on the mix.

### Polished finish.

Allow **MAXPATCH® -P** to cure within 24-48 hours, depending on temperature conditions, and proceed for grinding and wet polishing the surface mechanically with phenolic discs (50/ 100/ 150 grits).

Consult with the Technical Department the different combinations of discs according to the final desired finish.

### Application conditions

Do not apply if rain and/or temperature below 5°C is expected within 24 hours after application. Do not apply to frozen or frost-covered surfaces.

With hot temperatures (> 30 °C) and/or windy conditions, surface must be wet thoroughly with plenty of water prior to application and prevent a quick drying of **MAXPATCH® P** protecting from direct sunlight. In summertime, plan the work in advance preferably on shadow areas, early morning or close to sunset. Moisture curing by

spraying a fine mist of water or curing agent during the first 24 hours is advisable, without washing out surface, or by covering with polyethylene sheeting or damp burlaps. Do not apply with temperatures above 35°C.

## Curing

Allow **MAXPATCH® -P** to cure for 24 – 48 hours (at 20 °C) depending on temperature conditions before polishing procedures.

## 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

Estimative consumption of **MAXPATCH® -P** is from 16 – 20 kg/ m<sup>2</sup> for a 8 – 10 mm respectively thickness layer application (2,0 kg/ m<sup>2</sup> per mm thickness).

These figures are for guidance only and may vary depending on substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

## IMPORTANT INDICATIONS

- **MAXPATCH® -P** is designed for its application and subsequent polishing by specialized contractors.
- Consult in advance the combination of phenolic-type abrasive discs to obtain the desired final finish.
- Observe the recommended minimum and maximum thickness per layer.
- Do not use leftovers from previous mixes.

- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

## PACKAGING

**MAXPATCH® -P** is supplied as a two-component pre-weight set of 30 kg. The resin Component A in 5 litre jerrycan or 25 litre jerrycan. The cement powder component B in 25 kg bag. It is available in grey and white colour. Others colours available upon special request: blue, ivory, pearl grey, pink, red and green.

## STORAGE

Twelve months for component A and B respectively in its original packaging.

Store in a cool, dry, and covered place, protected from moisture, freezing and direct exposure to sunlight, with temperatures above 5°C.

## SAFETY AND HEALTH

**MAXPATCH® -P** is not a toxic product but is an abrasive compound. Avoid direct contact with skin, eyes, and breathing dust. Use rubber gloves and safety goggles during application. In case of skin contact, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **MAXPATCH® -P**.

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

<b>Product characteristics</b>	
<i>CE Marking, EN 13813</i>	
Description. Cement-based finishing and screed mortar, <b>EN 13813</b> CT-C30-F10-A6-B2,0	
Intended uses: Wearing layer	
General appearance and colour of Component A	White milky liquid
General appearance and colour of Component B	Powder in different colours
Density of component A, (g/cm <sup>3</sup> )	1,02 ± 0,1
Density of component B, (g/cm <sup>3</sup> )	1,50 ± 0,10
Maximum aggregate size (mm)	< 2,0
Mixing ratio A + B, (% by weight)	15 ± 1
<b>Application and curing conditions</b>	
Minimum application temperature (°C)	> 5
Pot life at 20°C & 50 % R.H., (min)	Approx. 20 – 30
Curing time for polishing and opening to traffic, (h)	24 - 48
<b>Cured product characteristics</b>	
Compressive strength at 28 days, EN 13892-2 (N/mm <sup>2</sup> )	> 30 (C3 class)
Flexural strength at 28 days, EN 13892-2 (N/mm <sup>2</sup> )	>10,0 (F10)
Böhme wear resistance, EN 13892-3 (cm <sup>3</sup> /50 cm <sup>2</sup> )	8,8 (A6 Class)
Adhesive bond on concrete at 28 days, EN 13892-8 (N/mm <sup>2</sup> )	3,5 (B2,02,9 Class)
Release of corrosive substances	None
Flash point	Non-flammable
<b>Thickness / Consumption*</b>	
Thickness per layer (mm)	8 - 10
Consumption per each 8 – 10 mm thickness layer (kg/m <sup>2</sup> )	16 – 20

\* These figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

## GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®**, **S.A.U.** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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