



MULTICRET[®]

MONO +



**Restructuring Mortar
type PCC (polymer cement concrete).**



Mortar (MHA) based on Modified Hydraulic Agent by polymeric resins :

- contains quartz sand.
- synthetic fibers added.
- exists in two granulation.

CHARACTERISTICS

- Ready to use : ready-mixed product.
- Strong adhesion to steel and concrete.
- High resistance to impact and dynamic loading.
- Favorable elasticity, equal to these of concrete.
- Applicable on sealing in layers from 3 mm to 2 cm.
- Can be applied on vertical surfaces in small or thick layers with or without precasting works fast.
- Non corrosive.
- Watertight, but not for vapour.
- Is resistant to frost and thawing-salt and all weather aggressions.
- Gray look.
- Available in 2 standard grades : **Fine** (0,1 – 0,3), **Normal** (0,1 – 1).



SPRL **ETS CHIMIQUES CLOQUETTE** BVBA

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APPLICATION

Restoration and repair of concrete

For example :

Repairs of bridges, tunnels,...

Renovation of buildings, stairs, concrete columns, terraces,...

All kind of repairs like pools, silos, towers,...

In general : repairs of concrete from which the armatures have suffered of the influence by filling of rigid masonry joints

TECHNICAL DATA

Values in N / mm ² after 28 days	MONO + (0 - 0,3) Extra-Fine	MONO+ (0 - 1) Fine	MONO+ (0 - 3) Normal
Compression	> 45	> 55	> 70
Flexion	> 10	> 11	> 11
Adhesion tension	> 2	> 2	> 2

PREPARATION OF THE WORK AREA

- inspect the whole of the surface, knock
- on it to detect zones who are not obvious at first sight
- free the rusty strengthening just on to the concrete.
- eliminate the rests of paint, oil,... to obtain a clean surface without dust or sand.
- clean the rusty parts of the strengthening by sanding (or brushing for smaller areas).
- protect the strengthening with 2 layers (2 to 6 hours between both layers) of **MULTICRET DS 2000** (0,5 kg/cm²).
- this protection can also be realized by a thin layer of multiret mono+.

It's wishful to humidify the zones to be repaired 24 hours between applying the product and also just before starting.

MIXING THE PRODUCT

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Mixing the product : **MULTICRET Mono +** is ready to use. All you need is to add water : 3,2 L to 25 kg of product. The mixing takes place in a slow-turning mixing device by progressive adding the product into the water until we obtain a thick consistency without lump.

Mixing time : 3 minutes  **Do not add other additives.**

USING INSTRUCTIONS

- Moisture generously the places to be repaired and those next to them ; the product will be applied with trowel and chalk-knife.
- Apply a thin layer of multiret ds 2000 on the whole of the repair zone.
- Once this layer has become mat, firmly press the **MULTICRET Mono +** in the cavity's, apply the layer in several passes without smoothing. Then pass the foam hawk so that you obtain an equal and slightly rough surface.

Do not powder the grout.

Beware : Protect the fresh grout against direct sunlight and wind, humidify regularly.



CONSUMPTION

1,900 kg of **MULTICRET Mono +** for 1l repairs so 1,9 kg/mm/m²

SPECIFICATIONS SHEET

Following the official report of the University of Liège (application at 25°C and 50% of relative humidity) adhesion by traction : 2,58 N/mm² after 28 days.

Compression : 55 N/mm² after 28 days.

Flexion : 11 N/mm² after 28 days.

Water absorption by capillarity : the results have proven that multicret mono+ absorbs much less water than a normal concrete.

Freeze-resistance : after 14 cycles of frozen/not frozen the loss of adhesion by traction is weak (0,29 N/mm²) in comparison with the initial value.

Resistance against salts : the resistance against peeling is remarkable, in fact the loss of weight of the test-tubes is insignificant.

Time between two layers

Between the different layers of multicret mono + : about 12 hours, depending on the temperature

Between the last layer of multicret mono + and the eventual finishing touch : 3 to 7 days depending on the temperature

Finishing touches

The repaired surfaces can be painted with a alkali resistant overlay.

You'll find in our assortment different paints and coatings which gives a high protection to concrete's.

CLEANING THE EQUIPMENT

With fresh water, immediately after use.

The hardened parts will be removed mechanical.

The same precautions will be taken like using concrete.

UTILIZATION TIME

Apr. 60 minutes at 20°C

APPLICATION TEMPERATURES

Minimum : + 5°C

Maximum : + 25°C

CONSERVATION

Dry keeping 12 months



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PACKING & SECURITY

Bags of 25 kg ; bags of paper (4 layers, one in plastic)

Palettization : 48×25 kg

Buckets of 5 kg

R37/38

R41

R43

S2

S 22

S24/25 S26

S36/37

S39

Although this technical form is based on years of experiences and research we can take no responsibility for the obtained results because we can not evaluate the conditions where in you will apply the product and his components. So we strongly advice you to perform premature tests to evaluate the efficiency of the product for your application. UPDATE 06/2009



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