



# MAXRITE®



A FAST-SETTING POLYMER MODIFIED CEMENTITIOUS REPAIR MORTAR

## DESCRIPTION

A fast-setting polymer modified cementitious mortar designed for structural repair of new or old concrete.

Spalled and broken concrete can be restored to its original condition without form work.

## USES

Replacement of concrete with corroded reinforcements, due to carbonation, excessive chloride concentration, alkali-silica reaction, etc.

## ADVANTAGES

- Quick setting. Repair can be completed in one operation.
- Finished result comparable to original concrete.
- Odourless, non-toxic, waterproof.
- Can be used for repair of tanks, reservoirs and water retaining structures, canal banks, fish ponds, bridges or high rise concrete structures.
- Good adhesion to reinforcement bars and inhibits rusting.
- Freeze-thaw resistant.
- Good impact strength.
- Long life.

## PREPARATION

Remove all damaged and loose concrete to expose a structurally sound base.

If visible, expose all reinforcement bars and grit blast or otherwise clean, to remove all rust and scale. Do not use metallic brooms. Renew steel if necessary. Edges to surface must be clean cut to avoid any feather edging. Dampen whole of exposed surface but leave no free standing water.

## MIXING

Mixing liquid should consist of equal parts of MAXCRYL® and water. For the slurry coat mix the MAXRITE® powder with mixing liquid to a batter consistency. For the repair mortar use



Technical information



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3.25-3.75 litres of mixing liquid per 25 kg of MAXRITE®. Power or manual mixing may be used.

Do not overmix.

## APPLICATION

Apply a slurry coat of MAXRITE® mix by brush over and under reinforcing rods and surface of prepared concrete and into voids.

Add more MAXRITE® powder to remaining slurry and mix to achieve a mortar consistency. Apply MAXRITE® by trowel to prepared area, forcing mixture into voids and under reinforcement bars. Apply in layers of 3-4 cms at a time. Scratch each layer and apply next layer when previous layer set (approx. 15 to 20 mins. according to temperature). Pot life of MAXRITE® is 20 minutes. Remodel final layer to original profile. Within 30 minutes of final shaping, coat whole structure with MAXSEAL® and MAXCRYL®. Structure is now completely restored. It is waterproof and damaged areas are indistinguishable.

## CURING

Under extremely windy or hot conditions, dampen all applied material with a fine spray of water for at least an hour. Under extreme weather conditions (hot or cold) cover the restored surface with an insulation material. Do not use curing compounds.

## APPLICATION TEMPERATURE

Do not apply to frost-covered surfaces nor when temperatures expected to fall below 5° C within the next 12 hours.

## PACKAGING

25 Kilogram bags and drums.

## STORAGE

In sacks and in a dry place, 9 months; in drums, 12 months.



Technical information

## CAUTION

As all cement products, MAXRITE® is abrasive. Protective rubber gloves must be used to prepare the mixture and apply it. If any of the mixture gets into the eyes, rinse thoroughly with clean water, but do not rub. If irritation continues, consult a doctor.

## TECHNICAL DATA

Density, wet condition	2,16 kg/dm <sup>3</sup>
Coverage	2 kg/dm <sup>3</sup>
Setting time, minutes	
Initial	12-15
Final	18-22
Modulus of elasticity	30.000 N/mm <sup>2</sup>
Thermal shrinkage and expansion coefficient	6.41 x 10 <sup>-6</sup> m/mK
Aggregate (maximum)	2,2 mm
Compressive strength, after 28 days	45,8 N/mm <sup>2</sup>
Flexural strength, after 28 days	9,0 N/mm <sup>2</sup>
Adhesion strength, after 28 days	2,1 N/mm <sup>2</sup>
Traction strength, after 28 days	6,0 N/mm <sup>2</sup>
Suitable under BS 6920 for potable water reservoirs	

### Disclaimer:

The general information provided in the present technical description, application guidelines and other recommendations, is based on research and experience. However the client is obliged to determine himself what products are suitable for use. Accordingly, no liability will be accepted by IBC.

For further information contact the IBC Technical Department.