

DESCRIPTION

Hydroc High Build Mortar is a high build, chemical-resistant repair compound that provides high strength and impermeability when used to repair damaged or spalling concrete surfaces.

Hydroc High Build Mortar is a blend of chemically active ingredients, sand and cement to form a strong and indivisible bond with base concrete substrates and has high resistance to abrasion and corrosion.

It can be utilized for structural repair or can be mixed with decorative aggregates and polished to produce an attractive cementitious repair to decorative finishes such as polished concrete of up to 100mm in depth.

USES

Suitable for repair of damaged horizontal concrete surfaces where a depth of fill of between 20 and 100mm is required such as:

- Bridges
- Roads
- Pipes
- Factory floors

FEATURES AND BENEFITS

- Contains no chlorides
- High mechanical strengths
- Forms an indivisible body with the base concrete
- Significantly increases impermeability and corrosion resistance of concrete
- Corrosion protection to reinforcement
- Excellent abrasion resistance and durability
- Can be painted over most coatings adhere well to the cured product
- Can be top coated with Hydroc Render

TYPICAL PROPERTIES

Waterproofing DIN 1048	
Compressive strength	24.0 MPa in 1 day 47.0 MPa in 7 days 54.0 MPa in 28 days
Flexural strength	5.9 MPa in 28 days
Bond strength	3.9 MPa in 28 days
Crack resistant according to 'Ring Method'	

APPLICATION GUIDELINES

Surface Preparation

Remove any existing coatings and thoroughly clean surface, acid etch, pressure wash then hose to fully impregnate with water and allow drying to a wet dull lustre free of puddles. Any exposed reinforcing should be cleaned and treated with Aardcure Catalyst (steel corrosion inhibitor and surface hardener).

Application Method

Priming:

Apply Aardcure Catalyst at the rate of 5-6 square metres per litre to further wet the surface without forming puddles. Note: Priming enhances steel corrosion inhibition of repaired concrete and increases bond strength.

Mixing:

Use a low sheer mechanical mixer to ensure proper mixing. Normal water requirement is 2.1 to 2.3L per 20 kg dependant on

required viscosity. Place 2 litres of water in a clean mixer bucket. While stirring gradually add Hydroc High Build Mortar and mix thoroughly for 2-3 minutes. If necessary, add additional water until a mix of the desired workability is obtained. Mix for a further minimum 1 minute. Use within 30 minutes.

Normal water requirement is 1 litre of water to 8.7 to 9.5 kg

Application:

Apply Hydroc High Build Mortar by trowel utilising standard mortar techniques.

Minimum fill depth will be 20mm

CURING TIME

All exposed areas should be thoroughly cured. This should be done as soon as the surface is firm, by the use of concrete curing membrane such as Aardcure WBS, continuous application of water or wet hessian.

CLEAN UP

Clean tools and equipment thoroughly with clean water before they dry.

PACKAGING

20kg moisture resistant bag or plastic pail

ESTIMATE DATA

Approximate yield is 10 litres per 20kg bag.
Theoretical coverage rate per 20kg bag:
0.5 m² @ 20 mm thickness
0.1 m² @ 100 mm thickness

SHELF LIFE

12 months when kept in dry store unopened in sealed bags or plastic pails.

SAFETY PRECAUTIONS

Always wear adequate personal protection during use including gloves, eye protection, overalls and appropriate mask. Apply in adequate ventilation. Refer to Material Safety Data Sheet for further safety information.

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