

Quickmast EP200WD

Three-component, water based epoxy tile adhesive and grout with improved abrasion, water and chemical resistance



Description

Quickmast EP 200WD is a water-based epoxy tile adhesive and grout consisting of 3 pre-weighted components of epoxy resin, hardener and selected filler that when mixed together produce a thixotropic paste suitable for permanent fixing of all types of ceramic tiles and stones in vertical and horizontal applications.

The high adhesion strength and chemical resistance of Quickmast EP200WD makes it an ideal option for installing and grouting tiles in industrial and commercial areas.

Applications

- ▲ Commercial centres.
- ▲ Low to medium duty industrial areas.
- ▲ Recreation centres.
- ▲ Other high traffic areas.
- ▲ Swimming Pools.
- ▲ Kitchens.
- ▲ Applied on both concrete & steel substrates.

Advantages

- ▲ High abrasion resistance.
- ▲ High slip resistance, for demanding vertical tiling.
- ▲ High bond strength.
- ▲ Mould and stain resistance.
- ▲ Water impermeable.
- ▲ Fast setting.
- ▲ Suitable for all ceramic tiles and stones.
- ▲ Suitable for internal, external and submerged conditions.
- ▲ Available in a wide range of colours.

Standards

Quickmast EP200WD complies with ANSI A118.8.

Method of Use

Surface Preparation

1) As a tile adhesive:

- ▲ Substrates should be clean and free from dust or any contamination.
- ▲ Steel surfaces should be free from rust or other contaminants, ideally grit blasted to a near white finish in accordance to Swedish standards SA 2 ½.

Technical Properties:

Mixed density:	1.8 ± 0.1 g/cm ³
Water cleanability: ANSI A118.8,5.1	Pass
Initial set: ANSI A118.8,5.2	5 hr
Final set: ANSI A118.8,5.3	9 hr
Shear strength to imperious tiles: ANSI A118.8,5.6.2	≥ 3.5 MPa @ 7 days
Shear strength to imperious tiles: ANSI A118.8,5.6.3	≥ 3.5 MPa @ after water immersion
Compressive strength: ANSI A118.8,5.8	≥ 35 MPa @ 10 days
Tensile strength: ANSI A118.8,5.9	≥ 3 MPa @ 10 days
Flexural strength: ANSI A118.8,5.10	≥ 9 MPa @ 10 days
Water absorption: ANSI A118.8,5.11	5% (50% RH to immersion)
Application temperature:	5 to 38°C
VOC: ASTM D2369	≤ 30 g/ltr

- ▲ Surfaces should be dry before tiling.

2) As a tile grout:

- ▲ Joint surfaces should be clean and free from dust or any contamination.
- ▲ Joints should be cleaned to the full thickness of the tile or to a minimum depth of 2/3 of the tile thickness.
- ▲ Joints should be dry before grout filling.

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used. Stir the base and the hardener individually to disperse any settlement.



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The entire contents of the base and hardener should be poured into a suitable size container and mixed mechanically for 2 minutes. Add the filler to the base/hardener mixture and mix for another 3 minutes until a uniform colour is achieved.

Placing and Finishing

1) As a tile adhesive:

Spread the mixed adhesive to the substrate using a notched trowel. Apply with pressure a 1 to 2 mm coat using the flat face of the notched trowel onto the substrate.

Comb diagonally additional mixed adhesive up to a 3 mm total maximum thickness with the notched side of the notched trowel. Do not apply on large areas that cannot be covered within the open wet time of the adhesive.

2) As a tile grout:

Use a masking tape on joint edges to protect tiles. Fill the mixed grout into the joints using rubber trowel or by using hand operated gun and cartridges. Excess grout should be cleaned with a proper wet cloth within the material pot life.

Working Conditions

Quickmast EP200WD should not be applied at temperatures below 5°C.

Cleaning

Cleaning should be commenced immediately before the grout reaches initial setting. After initial setting, product may be removed either by using a solvent or by mechanical means but with great difficulty.

Packaging

Quickmast EP200WD is available in 6 kg packs.

Yield

When used as a tile adhesive, each 6 kg pack shall cover 2.2 m² at 1.5 mm thickness.

The approximate yield of the grout can be calculated as per the following equation:

Chemical Resistance

ISO 13007-2:2010 after submersion in the following chemicals:

	After 28 days full immersion
Acetone	R
Ammonia 10% - Liquid	R
Diesel Fuel	RS
Hydrochloric Acid 10%	R
Kerosene	R
Nitric Acid 10%	RS
Oleic Acid	SS
Potassium Hydroxide 50%	R
Vinegar 5%	R
Vinegar 10%	R
Water - Distilled	R
Chlorinated Water	R
Water - Fresh	R
Water - Sea, Salt	R
Xylene	R

R: Resistant

RS: Resistant with slight discoloration

SS: Slight softening

$$\text{Yield (m}^2\text{/kg)} = \frac{5.1}{\text{WD} \left(0.02 + \frac{1}{L} + \frac{1}{H}\right)}$$

Where:

L: Tile length (cm)

H: Tile width (cm)

D: Average joint depth (mm)

W: Average joint width (mm)

Note: Grout yield is subject to ± 15% tolerance.

Storage

Quickmast EP200WD has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 35°C in original unopened pack.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.



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- ▲ Concrete admixtures.
- ▲ Surface treatments.
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Cautions

Health and Safety

Quickmast EP200WD should not come in contact with skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provide additional skin protection.

In case of contact with eyes or skin, rinse immediately with plenty of clean water and seek medical attention immediately.

For further information refer to the Material Safety Data Sheet.

Fire

Quickmast EP200WD is nonflammable.

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Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

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