RAMCO HARD WORKER

TILE FIX EPOXY HW205

Fixing all types of tiles and natural stones on specialty substrates and chemically exposed environments

TECHNICAL DATA SHEET

Product Description

Hard Worker Tile Fix Epoxy – HW205 is a three-component, high-performance tile adhesive engineered for exceptional bonding across a wide range of tile and special substrate types. With high chemical resistance, open time, and tensile strength, it is designed for challenging site conditions — both wall and floor applications.

Features

- Three-part system: Resin (Part A), Hardener (Part B), Filler (Part C)
- Complies with IS 15477 – Type 5 classification
- Suitable for dry, wet, and submerged surfaces
- Applicable over surfaces like concrete, metal, glass, and plywood

Application Areas

Recommended for:

- Interior and exterior floors and walls
- Tile Types: Ceramic, Vitrified, Glass Mosaic, Metal, Marble, Granite, Natural Stone, Acrylic
- Substrates: Cement Screed, Drywall, Plaster, Concrete, Wood, Plywood, Glass, Metal
- Particularly suited for high-stress or chemically exposed environments

Surface Preparation

Ensure the surface is dry, structurally sound, and free from dust, grease, or rust. Clean rusted metal with sandblasting. Ensure plumb tolerance of ±3 mm over 3 m.

Mixing Instructions

Pour Part A (resin) into Part C (filler) and mix to uniformity. Add Part B (hardener) and mix thoroughly using low speed blender. Mix only as much as can be used within the pot life. Ensure uniform, lump-free consistency.

Application Instructions

Use flat side of trowel to spread adhesive evenly. Then apply notched trowel to form a uniform bed. Fix tiles within 40 minutes of open time. Adjust tiles within 50 minutes. Allow 24 hours before grouting. Post Application Usage: 3 days light usage pattern and 7 days for heavy-duty usage.

Joint Filling

Allow the tile bed to set for at least 24 hours before grouting. Clean tile surface and joints of any loose slurry. Use HW Tile Grout (HW210 or HW211) as per site requirement. Apply using a rubber float and clean excess grout with a damp sponge before it sets.

Packaging & Shelf Life

Supplied in a box of 3 components (Resin, Hardener, and Filler)

Shelf life: 12 months in sealed condition, stored between +10 °C to +50 °C in dry areas

Physical Parameters

Property	Value
Part A Resin Appearance	Thick and viscous liquid
Part B Hardener Appearance	Thick and viscous liquid
Part C Filler Appearance	Powder
Mixed Consistency	Paste
Open Time	40 minutes
Adjustable Time	50 minutes
Pot Life	60 minutes
Slip	≤ 0.5 mm

All values tested under standard laboratory conditions.

Adhesion Strength

Condition	Strength (MPa)
Tensile Adhesion (Dry, 28 days)	≥ 2.0 MPa
Shear Adhesion (Dry, 28 days)	≥ 6.0 MPa
Shear Adhesion (Heat-aged, 28 days)	≥ 3.0 MPa

All values tested under standard laboratory conditions.

Coverage

24 – 36 sq. ft. per 12 Kg bag (2 – 3 sq. ft./Kg), depending on surface condition and method.

Cleaning

Clean all tools with appropriate thinner immediately after use. Cured material must be removed mechanically

Precautions

Contains epoxy resins – avoid contact with skin and eyes. Wear gloves, masks, and goggles

Technical Support

All values provided are tested under controlled laboratory conditions; performance may vary depending on site conditions and workmanship. For site-specific recommendations, technical data, or detailed guidance, contact the Hard Worker Technical Services Team at:

Toll-free number 1800 202 5700

Email customercare@ramcocements.co.in

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