HIGHWAY PATCH

ECONOMICAL QUICK SET PATCHING MORTAR

DESCRIPTION

EPIREZ® Highway Patch is a patented hydraulic cement material that provides high early strengths, high bonding strengths and precision non-shrink performance.

Unlike other accelerated materials, **EPIREZ® Highway Patch** does not show excessive volume changes, excessive heat generation or contain any harmful or corrosive compounds.

EPIREZ® Highway Patch provides users with the economic advantage of adding up to 60% pea gravel (6-10mm) extension without forming excessive voids, reduced workability or long-term durability deterioration.

EPIREZ® Highway Patch provides superior resistance to oil, grease, gasoline, salts and other chemicals found in transportation environments. It also has high wet/dry and freeze/thaw resistance for long-term performance in patching.

INTENDED USE

- Highways
- Bridges
- Sidewalks
- Airport runways
- Ramps
- Fast concrete repairs
- Footpaths
- Factory Floors

PRODUCT FEATURES

- Very rapid strength gain
- Precision non-shrink
- High bond strengths
- High chemical resistance
- Economical
- Effective 60% extension

ESTIMATING DATA

Epirez® Highway Patch 15kg = 8.0L = 0.6m2 at 12.5mm thick

TYPICAL PHYSICAL PROPERTIES

Technical data should be considered representative or typical only and should not be used for specification purposes.

Work Time @ 25˚C	10 minutes
Initial Set @ 25˚C	3 hours (fluid)
Final Set @ 25˚C	5 hours (fluid)
Water Ratio	1.5 – 2.0 L per 15kg pail
Volume change (ASTM C-827)	0.0% shrinkage
Bond Strength (ASTM C-882) 1 day 7 days	 17.2 MPa 27.6 MPa

Compressive Strength	
1 hour	20.7 MPa
3 hours	34.4 MPa
1 day	48.3 MPa
7 days	58.6 MPa

SURFACE PREPARATION

Surface preparation guidelines cannot cover all site or field contingencies and it is always recommended that suitability is confirmed as part of the Standard Quality Assurance audit for the project.

- Existing concrete surfaces must be thoroughly cleaned of oil and other deleterious substances.
- All unsound or damaged concrete should be removed until only sound, clean concrete is exposed. All loose material should be removed by wire brushing, washing, and/ or an oil-free jet.
- The existing concrete to be patched should then be thoroughly saturated with water two hours before application.
- The standing water should then be removed prior to patching.

MIXING INSTRUCTIONS

Temperature must be above 5°C for the mixing and placement of grout.

EPIREZ® Highway Patch should be mixed in a mortar mixer. Alternatively, a suitable mixing paddle with a low speed (400-1000 rpm) power mixer may be used.

Wet down the mixer before using and drain any excess water. With the mixer running, add the minimum recommended water to the mixer followed by the Highway Patch.

Mix for 2 to 5 minutes. Add more water only if required but do not exceed the maximum water. Do not mix more material than can be placed in 10 minutes.

APPLICATION INSTRUCTIONS

EPIREZ® Highway Patch may be trowelled or poured into the area to be patched. After levelling, the patch can be broomed, brushed or trowelled to the desired finish. Do not place in layers. Do not feather edge.

Cold weather

When using at or near freezing temperatures, **EPIREZ® Highway Patch** should be stored in as warm a place as possible. The patched area must be kept above 5°C until **EPIREZ® Highway Patch** has set.

Curing

As soon as the patch has hardened, flood with sufficient water to keep the surface wet for at least 30 minutes. Use a concrete curing compound for proper curing practice if the patch is not being top-coated.

PRECAUTIONS

Highway Patch should not be applied at temperatures below 5˚C

CLEAN UP

Highway Patch should be removed from tools and equipment immediately after use with clean water.

STORAGE

Store in dry conditions between 10°C and 30°C. Protect from frost. When stored in original sealed containers in dry conditions, the shelf life is 12 months.

WARRANTY

Epirez will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

DISCLAIMER

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Polymers & Fluids and EPIREZ® makes no representations or warranties of any kind concerning this data.

ORDER INFORMATION

Item No.	**Package Size**
E991605	15kg

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For Health & Safety information, refer to Safety Data Sheet available from ITW Polymers & Fluids upon request or available on our website.