

## OVERVIEW

Terraroc HBR is a high build polymer modified repair mortar with fibre reinforcement suitable for concrete repairs up to 80mm on vertical surfaces and 40mm in overhead applications. Terraroc HBR is shrinkage compensated and is sprayable enabling fast repair.

## PROPERTIES

Terraroc HBR is a blend of special cements, aggregates, plasticizers, polymers, fibres and shrinkage compensating additives with following properties:

- Ready to use
- Shrinkage compensated
- Factory controlled mix design
- Fibre reinforced ensuring high flexural strength
- Polymer modified ensuring excellent adhesion
- Specially formulated to allow repairs in vertical and overhead situations

## AREAS OF USE

Terraroc HBR is designed for use as part of the Terraco concrete repair system and is recommended for extra high-build repair work up to 80mm vertically and 50mm (overhead) in a single application.

## PREPARATION OF SURFACE

Do not apply at temperatures below 5°C. Remove all defective concrete back to the reinforcements, treat reinforcements with Epiprime ZR (see separate data sheet). Avoid feather edging. The repair area should be a minimum depth of 15mm. Thoroughly wet the surface with water and apply a coat of Terrabond A by scrubbing it well into the surface. Allow it to become tacky before applying the Terraroc HBR.

## MIXING

Ensure that the mixing water is constant for each bag of compound (4.5ltr water/25kg Terraroc HBR). A mechanical mixer is necessary to ensure consistency of the final mix. Add the powder to the water and mix continuously for 3 to 5 minutes.

## APPLICATION & CLEANING OF TOOLS

Apply to the prepared substrate by trowel ensuring that it is well compacted onto the primed surface/reinforcements. Build up in layers until the desired thickness is achieved. Where very thick sections are required allow the initial layer of Terraroc HBR to set, scratch the surface to provide a mechanical key and prime with Terrabond A before applying the final layer of Terraroc HBR. Finish using a steel float. Terraroc HBR should not be applied in layers less than 15mm thickness.

Clean tools and equipment with water after use.

## CURING

Terraroc HBR should be cured immediately after troweling is finished by applying Terrabond A to the surface. In harsh conditions the supplementary use of hessian or polythene must be used to ensure proper curing.

## HEALTH & SAFETY

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

## PACKAGING & STORAGE

Terraroc HBR is packed in 25kg valve craft bags.

Terraroc HBR should be stored in a clean dry area, protected from direct sunlight and extreme heat and cold. The pallets can be stacked two high provided care is taken. Opened sacks should be used first. Unopened sacks can be stored for 6 months. Use oldest material first.

TERRACO offers a comprehensive range of products and services for most concrete and finishing needs. Please contact the TERRACO Technical Service Department or your local TERRACO agent for further information, samples, demonstrations and instructor services. The information given in this leaflet is based upon laboratory research, as well as extensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on TERRACO's present state of knowledge and is intended to provide general information on TERRACO's products and their methods of use. The prospective user is recommended to determine the suitability of TERRACO's suggestions and products before adopting them on a commercial scale.

## TECHNICAL DATA

<b>Product</b>	High-build polymer modified repair mortar.
<b>Binder</b>	Hydraulic/organic.
<b>Colours</b>	Grey
<b>Compressive Strength</b>	28 n/mm <sup>2</sup> (7 days), 40 N/mm <sup>2</sup> (28 days).
<b>Flexural Strength</b>	6 N/mm <sup>2</sup> (28 days).
<b>Tensile Strength</b>	3 N/mm <sup>2</sup> (28 days).
<b>Set Time</b>	3 hours (initial), 5 hours (final).
<b>Wet Density</b>	2100 kg/m <sup>3</sup>
<b>Water Demand</b>	18% (4.5ltr water/25kg bag).
<b>Application Thickness</b>	15-80mm (vertical) 15-50mm (overhead).
<b>Yield</b>	25kg of powder + 4.5ltr of water gives 14ltr mix.
<b>Packaging</b>	25kg valve craft bags.
<b>Storage</b>	6 months in original unopened container.

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