



# HS Mikro-Conkrete

Flowable non-shrink concrete for structural repairs

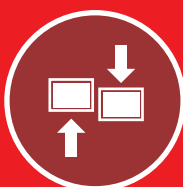


## Product Attributes



**Ready to use**  
Ready to mix powder

**Adjustable consistency**



**Easy to pour in restricted locations**

**Rapid strength development**



**Excellent Bonding**

**Shrinkage compensated**



## Product Description

Home Shield Micro-concrete is a high precision, non-shrink packaged dry repair concrete factory designed with select cement, aggregate and other chemicals to produce a pourable, but non-shrink cementitious concrete at the site condition when mixed with recommended quantity of water.

## Recommended Use

- Repair of damaged concrete structures
- Repair of columns
- Repair of beams and slabs
- Grouting of large gaps

### Aspect



Grey powder

### Bulk Density



Approx. 1.6 Kg/L

### Consumption



2100 – 2200 KG/M<sup>3</sup> AT 0.15 W/C RATIO

### Layer Thickness



60 mm minimum / 300 mm maximum on single pour

### Compressive Strength



At a water powder ratio of 0.14-0.15 by weight, at greater than 30°C ambient temp, relative humidity < 70%

1-day : > 10 N/mm<sup>2</sup>  
3-day : > 30 N/mm<sup>2</sup>  
7-day : > 40 N/mm<sup>2</sup>  
28-day : > 50 N/mm<sup>2</sup>

### Chemical Base



Cement, selected fillers, aggregates, special additives



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## Packs



25 Kg bags

## Storage



1 year from the date of production, if stored properly in dry condition, in undamaged and unopened original packaging.

## Surface Preparation

- The substrate should be prepared by suitable mechanical preparation techniques such as high pressure water jetting, breakers, blast cleaning, scrabbles etc.
- The concrete substrates should be pre-soaked with clean water continuously for 2-6 hours to ensure a saturated surface dry condition throughout the operation.
- Immediately before pouring remove all excess or standing water from within any formwork.

## Substrate Quality

- Surfaces must be sound, clean, free from ice, oils, grease, standing water and any loose or friable particles and any other surface contaminants.
- The concrete 'pull off' strength should be  $> 1.0$  MPa.
- For metallic surface contacts, it should be clean, free from oil or grease, rust, scale etc.

## Directions for Application

### Application Conditions:

**Substrate Temperature :**  $+5^{\circ}\text{C}$  min./  $+40^{\circ}\text{C}$  max.

**Ambient Temperature :**  $+5^{\circ}\text{C}$  min./  $+40^{\circ}\text{C}$  max.

### Mixing:

For larger repairs the mixed HS Mikro Concrete may be modified by the addition of 5 mm to 12 mm clean graded saturated surface dry aggregate at site. For exceptional large repairs the local berger representative may be consulted.

**Mixing Time:** 3 minute minimum

## Application Method

- Pour HS Mikro-Conkcrete immediately after mixing onto the prepared surface that requires repair.
- Ensure that air displaced by the HS Mikro-Conkcrete can easily escape; otherwise entrapped air will prevent full contact of the concrete. Wet porous substrates to saturated surface dry condition.
- When applying HS Mikro-Conkcrete ensure that a continuous and sufficient head pressure is maintained to keep the slurry flowing.
- To make optimum use of the products' rapid strength development properties, apply the HS Mikro - Concrete as early as possible (within max. 15 minutes).

## Points to Note

- Use HS Mikro-Conkcrete for repair only. This cannot be applied without formwork in place.
- Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing.
- Use chilled water for mixing in case of high ambient temperature.
- Use hot water for mixing in case of very low ambient temperature.
- Keep any visible, exposed micro-concrete surfaces as small as possible and protect from premature drying out by suitable measures (keep moist, cover with wet hessian etc.)

## Cleaning of Tools

- Clean all tools and application equipment with water immediately after use.
- Hardened/cured material can only be mechanically removed.

## Safety & Precautions

- Accidental splashes onto skin must be washed off with water and soap.
- If it comes in contact with eyes or mucous membrane, rinse with clean warm water and seek medical attention without delay.
- Do not dispose off into water or soil, but it is advisable to do it as per local regulations.
- Non-toxic under the relevant local health & safety codes.
- Non hazardous.

Version No: BPP1/10/2019. Please note that this data sheet supersedes all previous versions.

## BERGER PAINTS INDIA LIMITED

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