

# Mastertop<sup>®</sup>290 Formerly known as Ferroshield

## Iron aggregate hardener for concrete floors

### Description

Mastertop<sup>®</sup>290 is a factory blend of processed iron aggregate, portland cement, binders, densifiers and chemicals to promote good finishability.

### Standards Compliance

Mastertop<sup>®</sup>290 meets the requirements of the former SA Department of Community Development specification for iron aggregate floor hardeners and provides the dry-shake system referred to in ACI Committee 302 publications.

### Typical Uses

Mastertop<sup>®</sup>290 is specially suitable for concrete floor life extension in:-

- Workshops of various types.
- Heavy duty maintenance, or production engineering areas.
- Warehouses and high rack storage rooms.
- Sheet metal workshops.
- Factories of various types.
- High foot traffic corridors and lanes.
- Chemical production units.
- Areas subjected to forklift traffic, pallets, steel wheels or drums.

### Special Features

Mastertop<sup>®</sup>290 provides concrete floors with an iron reinforced high strength (up to 80MPa) wearing shield at the surface. It adjusts c/w ratios of otherwise weaker surface paste and bleed water residues during construction, and introduces the malleability and exceptional abrasion resistance of iron where it is most needed.

Mastertop<sup>®</sup>290 treated concrete has the following properties:

- Excellent impact, abrasion and oil resistance
- Freedom from dusting.
- Surface strength of up to 80MPa.
- Resistance to trolley or steel track wheel loads.

### Limitations

Do not use Mastertop<sup>®</sup>290 where the floor is regularly subjected to elements aggressive to iron (chlorides, salts, certain acids, oxidizing agents and the like).

### Application Rates

Light traffic	3 - 4kg/m <sup>2</sup>
Medium traffic	5 - 6kg/m <sup>2</sup>
Heavy traffic	7 - 8kg/m <sup>2</sup>
Extra heavy traffic and impact areas	9 - 15kg/m <sup>2</sup>
Coloured floors	7kg/m <sup>2</sup> (minimum)

### Examples

Gear box manufacturer	7kg/m <sup>2</sup>
Fresh produce market	7kg/m <sup>2</sup>
Engineering workshop	8kg/m <sup>2</sup>
Steel Track Vehicles	13kg/m <sup>2</sup>
Shoe factory	4kg/m <sup>2</sup>
Cosmetics warehouse and factory	5kg/m <sup>2</sup>
Industrial training centre	5kg/m <sup>2</sup>

### Consultation

Request pre-specification consultation from BASF CC SA. Technical Services to select the correct application rate for your project.



The Chemical Company

# Mastertop<sup>®</sup>290

## Strength

Cubes made from 25mm slump mix give 80MPa plus, at 28 days.

## Colours

Dark cement grey, Red, Brown, Green, Light Grey, Charcoal or Black. Special colours made to order if viable. Colour selection will influence cost and pre-specification quotations are suggested. Allow sufficient lead-time for manufacture of special colours.

## Application & Curing

Application is by the dry-shake method, onto concrete, at approximately initial set during plastic phase. Depending on the allocation and the size of the contract arrangements can be made, given adequate notice, for BASF CC SA technical personnel to be available to advise contractors during the initial stages of construction. For full details consult the BASF CC SA Concrete Floor Hardener Installation Instructions. Power floating is recommended, with hand finishing for even colour registration. Curing with Cureseal "F" at 8-10m<sup>2</sup>/litre or Resinure "H" at 6-8m<sup>2</sup>/litre must be specified.

## Cleaning and Sealing

BASF CC SA products has developed products for the stripping of curing membranes and the cleaning and sealing of floors where good appearance is a requirement. Various industries require specialised treatments. Consult BASF CC SA Technical Services for advice regarding cleaning and maintenance systems for industrial floors. When coloured floors are specified stripping, cleaning and sealing are prerequisites and form an integral part of the specification.

## Packaging

25 kilogram polylined bags.

## Storage

Keep dry in closed bags.

## Shelf Life

9 months correctly stored.

## Suggested Specification for Mastertop<sup>®</sup>290

### Metallic Floor Hardener

Incorporate into the surface of concrete floors in areas noted on the drawings and/or listed in the floor finish schedule kilograms per square metre of BASF CC SA Mastertop<sup>®</sup>290 iron aggregate dry-shake hardener plain or coloured (insert desired colour) in two applications to the fresh concrete, strictly in accordance with the manufacturers recommendations. Trowel the floor to a smooth/non-slip/textured finish (insert client requirement) and cure with Cureseal "F".

### Impact Joints

Mastertop<sup>®</sup>290 "Impact Joints" shall be incorporated on all (state-construction, isolation, expansion joints). 10mm deep tapering to surface 75mm away from joint, at the rate of 3,35 kilograms per lineal metre (for one side of joint)

Imported & Marketed in India by:

**BASF India Limited(Construction Chemicals Div)**

Plot No.37,Chandivali Farm Road,Chandivali, Andheri(E)  
Mumbai - 72 Tel: 28580200 Fax: 28478381

e-mail: construction-india@basf.com [www.basf-cc.co.in](http://www.basf-cc.co.in)

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As all BASF's technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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### BASF Construction Chemicals South Africa (Pty) Ltd

P.O. Box 420, Westonaria, 1780  
11 Pullinger Street, Westonaria, 1779  
Tel: +27 11 754 1343  
Fax: +27 11 754 1105  
e-mail: basfcc@mweb.co.za

61 Brunton Circle, Founders Hill, Modderfontein, 1645  
P O Box 75845, Garden View, 2047  
Phone +27-11-452 6557  
Fax +27-11-452 3595  
e-mail: basfcc@mweb.co.za

