



# ABHIRAMHI ENTERPRISES

Manufacturers of Fibre Reinforced Concrete & Plastic Cover Blocks / Spacers

No.14, 25th Link Street, Venkateswara Colony, Nehru Nagar,  
Kottivakkam (OMR), Chennai 600 041. India. PH: 91 44 4263 8717

abirami.spacers@gmail.com / kv1605@gmail.com

IE CODE:0415010942

www.aespacers.com

GST:33AIRPK1738JIZO

## MATERIAL SAFETY DATA SHEET (MSDS) FOR CONCRETE COVER BLOCK

### 1. PRODUCT / COMPANY IDENTIFICATION

#### Manufacturer's Name & Address:

Abhiramhi Enterprises

25, 14<sup>th</sup> Link Street, Venkateswara Colony

Nehru Nagar, Kottivakkam (OMR), Chennai 600 041, India.

Telephone Number for information:

+91 44 4263 8717. Mobile No. +91 98410 38382

### 2. COMPOSITION INFORMATION

#### Major Compounds:

JSW Cement OPC 53 Grade

Stone crush, Fibre

Chemical Name PC 400

Aggregate Mixture 60-100

\*Composition varies naturally, typically varies

### 3. PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point – N/A

Specific gravity (H<sub>2</sub>O=1) 2.6-2.75

Vapour Pressure (mm Hg) N/A

Melting Point – N/A

Vapour Density - (AIR-1) N/A

Evaporation Rate - N/A

Solubility in water – Not soluble

Appearance & Odour – Crystalline Silica is angular grey, white & tan particles ranging in size from powder to boulders, no odour.

Concrete is a hard grey mass, no odour (plastic as delivered)

#### Trade Name:

Concrete Cover Block

Department of Transport identification No: None





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### 4. FIRE & EXPLOSION HAZARD DATA

Flash point – N/A

Extinguishing media – N/A

Special fire fighting procedure – None

Unusual fire & explosion hazard – None

Flammable Limits – N/A

LEL – N/A

UEL – N/A

#### HEALTH HAZARDS:

##### Primary Route(s) of entry:

Inhalation – Yes

Skin – Yes

Ingestion – No

### 5. PERSONAL PROTECTION & CONTROL MEASURES

**Ventilation:** Local exhaust or general ventilation adequate to maintain exposures below appropriate exposure limits.

**Others:** Respirable dust & silica levels should be monitored regularly. Dust & silica levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls including (but not limited to) wet suppression, ventilation, process enclosure & enclosed employee work stations.

**Respiratory Protection:** When dust or silica levels exceed or are likely to exceed appropriate exposure limits, follow MSHA or OSHA regulations as appropriate for use of NIOSH – approved respiratory protection equipment.

**Skin Protection:** Protective gloves, shoes & protective clothing should be worn to avoid contact with skin.

**Eye Protection:** Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessive (visible) dust conditions are present or anticipated. Contact lenses should not be worn when working with this product.

**Hygiene:** Wash dust exposed skin with soap & water before eating, drinking, smoking & using toilet facilities. Wash work clothes after each use.







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### 6. STORAGE & HANDLING PRECAUTIONS:

Respirable silica & dust may be generated during processing, handling & storage. The personal protection & controls identified in Section VII of the MSDS should be applied as appropriate. Do not store or handle near food & beverages or smoking materials.

### 7. SPILL, LEAK & DISPOSAL PRACTICES:

The personal protection & controls identified in Section VII of the MSDS should be applied as appropriate.

**Steps to be taken if Material is released or spilled:** Spilled materials where dust can be generated may overexpose cleanup personnel to respirable silica & dust. Wetting of spilled material and /or use of respiratory protective equipment may be necessary. Do not dry sweep spilled material. Flush away with water or break up into manageable sized units.

**Waste Disposal Method:** Dispose of waste materials only in accordance with applicable federal, state & local laws & regulations.

**Precautions to be taken in handling & storing:** Prolonged exposure of skin to wet concrete should be avoided.

**Other precautions:** Ventilation & respiratory protection should be used when removing or modifying hardened concrete.

**NOTICE:** Based on research of available data, Abhiramhi Enterprises believes that the information contained in this Material Safety Data Sheet is accurate. The suggested procedures are based on data & experience as of the date of preparation of the MSDS. The suggestions should neither be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements.

Abhiramhi Enterprises voluntary preparation of this MSDS should not be construed in any way as an agreement to be subject to India jurisdiction as applicable.





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### Acute:

**Eye contact:** Direct contact with dust may cause irritation by mechanical abrasion.

**Skin contact:** Wet concrete in plastic state can dry the skin & cause alkali irritation. Direct contact in dry state may cause irritation by mechanical abrasion.

**Skin absorption:** Not expected to be significant exposure route.

**Ingestion:** Ingestion of large amounts may cause gastro-intestinal irritation & blockage.

**Inhalation:** Dusts may irritate the nose, throat & respiratory tract by mechanical abrasion. Coughing, sneezing & shortness of breath may occur following exposures in excess of appropriate exposure limits.

**Chronic Inhalation:** Chronic exposure to respirable dust in excess of appropriate exposure limits may cause lung disease. Silicosis may result from excessive exposure to respirable silica dust for prolonged periods. Not all individuals with silicosis will exhibit symptoms. Silicosis is progressive & symptoms can appear at any time even after exposure has ceased. Symptoms may include shortness of breath, coughing or right heart enlargement & or failure. Persons with silicosis have an increased risk of pulmonary tuberculosis infection. Tobacco smoking may increase the risk of developing lung disorders including emphysema & lung cancer.

**Carcinogenicity:** Ready mix concrete is not listed as a carcinogen by the National Toxicology Programme (NTP) or the international agency for research on cancer (IARC). However, crystalline silica is classified by the IARC as carcinogenic to humans (Group 1). The NTP has characterized respirable silica as "known to be a human carcinogen". Prolonged & repeated breathing of silica may cause lung cancer.

**Signs & Symptoms of Exposure:** Red skin, dust irritation of eyes, skin & or respiratory system.

**Medical conditions generally aggravated by exposure:** Inhaling respirable dust may aggravate existing respiratory system diseases & or dysfunctions such as emphysema or asthma. Exposure may aggravate existing skin or eye conditions.

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### EMERGENCY FIRST AID PROCEDURES:

**Eyes:** Immediately flush eyes with plenty of clean water for at least 15 minutes while holding the eyelids open. Beyond flushing, do not attempt to remove material from the eyes. Contact a physician if irritation persists or later develops.

**Skin:** Wash skin with soap & water. Contact a physician if irritation persists or later develops.

**Ingestion:** If person is conscious, give large quantities of water & induce vomiting. However, never attempt to make an unconscious person drink or vomit. Get immediate medical attention.

**Inhalation:** Remove to fresh air. Dust in throat & nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops.

### TECHNICAL DATA:

SL.NO.	PARAMETERS	RESULTS
1.	Specific gravity	2.2 – 2.4
2.	Passing through No. 12 mesh	90% min
3.	Passing through 200 mesh	20% max
4.	Liquid limit	400%
5.	Plastic limit	45
6.	SiO <sub>2</sub>	(55-60)%
7.	Al <sub>2</sub> O <sub>3</sub>	(18-22)%
8.	Fe <sub>2</sub> O <sub>3</sub>	(10-12)%
9.	TiO <sub>2</sub>	0.003%
10.	CaO	(2.1-2.5)%
11.	Na <sub>2</sub> O	(2-3)%
12.	MgO	(1-2)%
13.	K <sub>2</sub> O	0.20%
14.	H <sub>2</sub> O	(8-12)%





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March 27, 2019

## TO WHOMSOEVER THIS MAY CONCERN

### Subject: Compliance statement

We have conducted tests as required by code BS 7973: Part 1:2001 for Abhiramhi Concrete Spacers.

The court referred specifies the following

1. Cube strength of at least 50M/mm<sup>2</sup> at 28 days in (section 6.3 of the code)
2. Load bearing capacity of 3KN (Table 2 of sec 9 along with A.1.3.3)
3. Dimension tolerance of +2mm (sec 7.2)

These tests were carried out at ICOMAT (Institute for Construction Materials & Technologies (P) Ltd, Chennai, India – An accredited member of NABL, incubated by IIT, Madras, India.

Copy of the test report is attached.

For ABHIRAMHI ENTERPRISES

PRODUCTION MANAGER





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March 27, 2019

Ref: AE/MSDS/March2019

## TO WHOMSOEVER THIS MAY CONCERN

This is to certify that our Fibre Reinforced Concrete Cover Blocks are manufactured in Chennai, India.

FOR ABHIRAMHI ENTERPRISES

PRODUCTION MANAGER.

