



**ETHEKWINI MUNICIPALITY
COMMUNITY AND EMERGENCY SERVICES CLUSTER
HEALTH UNIT**

**APPLICATION FOR ISSUING OF A SCHEDULED ACTIVITIES PERMIT
IN TERMS OF THE ETHEKWINI MUNICIPALITY: SCHEDULED ACTIVITIES BYAW,
2020**

I Douglas Brown. hereby make application in terms of **Section 5(1)** of the **Scheduled activities Bylaw of the eThekweni municipality 2020**, for permission to undertake a listed activity and hereby submit the following information in support thereof:

- 1. Section 1 Facility information**
- 2. Section 2 Process, plant and/or production**
 - 2.1 Process description
 - 2.2 Hours of operation
 - 2.3 Graphical process information
- 3. Section 3 Raw materials**
 - 3.1 Raw materials used
 - 3.2 Production rates
 - 3.3 By-Product Produced
- 4. Section 4 Environmental Management**
 - 4.1 Dust Management
 - 4.2 Noise Management
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- 5. Section 5 Occupational Health and Safety**
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- 9. Section 9 Transportation**
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 - 10.2 Site Layout
 - 10.3 Surrounding Land uses
 - 10.4 Process Diagram
 - 10.5 Water Re-use Diagram
 - 10.6 Stormwater Plan
 - 10.7 Process Risk Assessment
 - 10.8 Safe Working Procedures

SECTION 1 PERMIT HOLDER DETAILS

1 FACILITY INFORMATION

Facility Name	CreteMix Mixed Concrete
Company Trading Name	As above
Type of Facility , e.g. Company/Close Corporation/Trust, etc.	Pty (Ltd)
Company/Close Corporation/Trust Registration Number (Registration Numbers if Joint Venture)	2013/053051/017
Physical Address / Description of Site (Where No Street Address)	Portion 8 of 50
	Cato Ridge
Coordinates of Approximate Centre of Operations	29° 43' 46,81"S 30° 36' 23.60"E
Postal Address	PO Box 1375
	Pinetown 3600
Telephone Number (General)	031 701 1727
Company Email Address	douglas@cretemix.co.za
Industry Type/Nature of Trade	RMC Concrete
Land Use Zoning as per Town Planning Scheme	<i>Attach a copy of the land use zoning certificate</i>
Land Use Rights if outside Town Planning Scheme	N/A
Name of the Land owner or Landlord	AfroProp

Responsible Person Name	Douglas Brown
Telephone Number	031 701 1727
Cell Phone Number	N/A
E-mail Address	douglas@cretemix.co.za
Name of SHEQ Official if available	N/A
Telephone Number	N/A
Cell Phone Number	N/A
E-mail Address	N/A
After Hours Contact Details	N/A

Location and extent of plant: Attach a map or a block plan detailing the location of your premises in relation to the external environment. (Google Earth image)

2 SECTION 2 PROCESS, PLANT AND/OR PRODUCTION

2.1 Process description

Please provide a detailed description of the entire production process including the purpose or function of each unit process

The production of ready mixed concrete involves the storage of stone, sand and cement on the site. These materials are transported from storage to a hopper via conveyor and front end loader. The hopper is located above a concrete mixing truck, the materials flow from the hopper into the truck and water is added to form concrete which is mixed by the rotating action of the truck. The truck leaves directly to the client where the concrete is used.

Processes Conducted

List all unit processes conducted

Unit Process	Unit Process Function	Batch or Continuous Process	Emissions released
Cubic metres	Mixing concrete	Batch	None

Type of Waste transported (Pls tick where applicable) only for Waste transportation application						
Health Care Risk Waste (HCRW)	Domestic	Hazardous	Commercial	Garden	Recyclables	Other (specify)
N/A	Y	N/A	N/A	N/A	Y	No

2.2 Hours of operation

Provide the hours of operation

Unit Process	Operating Hours	Number of Days Operated per Year
Approx 40m ³ per day	Average 5hrs	Approx 230

2.3 Graphical process information

2.3.1 Attach the following for the entire operation being undertaken at the site:

- Simplified block diagram with the name of each unit process in a block; showing links between all unit processes or blocks.
- Site layout diagram (plan view and to scale) indicating location of unit processes, plants, buildings, stacks, stockpiles and roads (include true north arrow and scale).
- Attach a color coded site drainage plan detailing the layout of the premises with the drainage facilities (trade effluent, domestic sewer and storm water, onsite pretreatment facilities, demarcated safety zones and storage areas.

3 SECTION 3 RAW MATERIALS

3.1 Raw materials used

Raw Material Type	Design Consumption Rate (Quantity)	Actual Consumption Rate (Quantity)	Units (Quantity/Period)
Sand	100m ³	40m ³	Day
Stone	250 tons	50 tons	Day
Cement	100 tons	5 tons	Day
Water	50 tons	10 tons	Day
Admixture	300 liters	90 litres	Day

3.2 Production rates

Production Name	Design Production Capacity (Quantity)	Actual Production Capacity (Quantity)	Units (Quantity/Period)
Concrete	30m ³ /hr	14m ³ /hr	m ³ /hr

3.3 By-Product Produced

By-Product Name	Maximum Capacity (Quantity)	Production Permitted	Design Capacity (Quantity)	Actual Production Capacity (Quantity)	Units (Quantity/Period)
N/A					

4. SECTION 4 ENVIRONMENTAL MANAGEMENT

4.1 Dust Management (Dust Regulations and Section 22 of AQ Bylaw)

4.1.1 Identify all sources of dust and list mitigation measures (Attach copies of recent dust monitoring reports) – N/A

The site is dusty in windy conditions, dust is entrained from the vehicles travelling around the material storage stockpiles. These areas are wetted in periods of high wind to reduce dust.

4.2 Noise Management (Noise Regulations and SANS10103)

Identify all potential noise sources and for each noise source identified describe:

Noise is generated by the use of the Front End Loader, the tipping of the stone into the hopper and the truck engines.

4.2.1 The anticipated impact on surrounding communities

The neighbouring land use is all industrial.

4.2.2 The details of the noise control measures implemented/ to be implemented

The trucks are not permitted to have their engines running whilst waiting on the site. Engines must run during mixing and loading, but the trucks have mufflers fitted and are kept in good working order to reduce noise.

Attach copy of latest noise measurement report completed. **N/A**

4.3 **Waste Management**

4.3.1 Identify all waste streams associated with the operation, Give details below:

Type of Waste	Composition / constituents of waste	Volume Generated	Storage	Disposal Method	Frequency of disposal	Waste service Provider	Final Disposal point
General	N/A	1 bag per week	Bin on site	Taken off site for collection by Municipality	Weekly	N/A	Municipal landfill
Wash out sludge	Sand, stone and cement	10 Cubes A week	In separator pit	Taken by Sandop for re-use	Once A week	Sandop	Re-use
Sewage	N/A	N/A	Septic tank	Septic tank and French drain	N/A	N/A	N/a
Wastewater	Water with cement residue	600l per day	In separator pit	Recycled back into the process	N/A	N/A	Re-use

4.3.2 Describe system of record keeping for tracking each waste. Are Waste disposal certificates kept to account for all wastes removed by a service provider?

Records are kept of the wash out sludge taken by Sandop for re-use.

4.3.3 Provide detail of any toxicity testing completed.

N/A

4.3.4 Details of waste management systems

None

4.3.5 Provide waste minimisation activities

Cement is purchased in bulk, reducing the packaging waste. Water and wash out sludge are recycled.

4.4 **Surface and Ground Water Quality monitoring (DWS requirements to be considered)**

4.4.1 Describe measures in place for the protection of surface and ground water sources

The bottom portion of the site is bunded with a concrete floor. The cement is stored in silos.

Dirty water runs to the water separation pit. Clean water drains into the stormwater system.

Attach copies of water sampling reports that may have been completed

N/A

5. SECTION 5 OCCUPATIONAL HEALTH & SAFETY

5.1 Have all the potential occupational hazards/risks relating to the internal operations been identified. (Y/N) -comments

See attached Process Risk Assessment

5.2 Provide a list of all such stressor / hazards identified i.e physical, chemical, biological, ergonomical, other

Physical: Moving vehicles, Conveyor, Dust and noise

Chemical: Admixture or cement entering waterways/Groundwater

Biological: water contaminated with concrete water entering natural watercourses/groundwater

5.3 Do you believe that any of the above risks / hazards will be at a level which may pose a health risk to the employees

No, the risks are of a minor nature

5.4 List all methods which will be used to control Health Risks

Employees have appropriate PPE

Conveyors have guards and trip wires

Vehicles travel at less than 5km/hr on site.

Most of the trucks have reversing beepers to warn when they are reversing.

Toolbox talks

5.5 Provide details of envisaged Health and Safety training for employees.

Toolbox talks are undertaken once a week.

5.6 Have staff undergone pre-employment medicals (if so, provide details) (Y/N)

No

Attach latest Occupational Health list programme and compliance report.

Occupational health risk assessment, occupational exposure monitoring reports and occupational health/ medical report to be reviewed

Only 3 people employed on site.

6. SECTION 6 MAJOR HAZARD INSTALLATION

Provide the list of operation (s) that constitute a Major Hazard Installation including mitigation measures that are in place.

The operation is not considered to be an MHI.

7. SECTION 7 EMERGENCY RESPONSE AND CONTIGENCY MEASURES

The Emergency Response plan takes cognisance of foreseen environmental emergency scenarios, the method of managing such emergencies, the responsible person / team and resources required.

See Written Safe Working Procedures. Emergency contact numbers are displayed on the office wall.

8. SECTION 8 EFFLUENT DISCHARGE

Describe the composition and volume of any effluent discharged or to be discharged to sewer. (Application for an Effluent discharge permit with EWS is require

No other disposal from site as waste water is recycled.

ETP / Odour Management (If applicable) – **N/A**

9. SECTION 9 TRANSPORTATION

List details of all vehicles used in the transportation of waste:
Washing / base premises / Application for the transportation of waste

N/A. No waste is generated on site.

Vehicles used on site (S5(2)(d) of Regs)

NU 32491	TATA NOVUS	N71 LOD Passion Dist
NU 141421	TATA NOVUS	N64 LOD PBC

I declare that the information provided above is in all respect factually true and correct.

Signature of Applicant: _____



Date: 5 November 2021

NOTE: This application must be completed in full and signed by the Applicant

Attachments:

10.1 Zoning Documents

- 10.2 Site Layout
- 10.3 Surrounding Land uses
- 10.4 Process Diagram
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Site notices and newspaper adverts (check requirement once form submitted). (S6 of the Regs). – To Be Determined