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Technical Data Sheet of Silica Sand

Product Name: Silica Sand

Product Code: ACSCSS

CAS No: 14808-60-7

Description: Silica Sand also referred as quartz sand is the most versatile used mineral in the epoxy flooring industry that is generally combined with epoxy, poly aspartic or poly urea coatings. Silica Sand is a notoriously hard mineral which makes it ideal use for floors in commercial, industrial and residential environments. It has many great qualities such as anti-slip aggregate, filler for self levelling systems, filler for grouting & coving & crack repair, as decorative component, or as bonding agent for inter-coat adhesion.

1. Physical Properties:

Appearance: Granular Solid

Odour: Not applicable

Purity: 99%

2. Chemical Composition:

Main Ingredients: Silicon Dioxide (SiO_2).

3. Applications:

Silica Sand is used for wide range of applications such as:

Glass Manufacturing:
Silica is the major ingredient in virtually all types of glass. The principal glass products include containers (bottles and jars), flat glass (windows, mirrors, vehicle glazing etc.), lighting glass (light bulbs, fluorescent tubes, etc.), tableware (lead crystal, drinking glasses etc.), TV tubes and screens, decorative glass, fiber glass, optical glass and vacuum flasks.

Ceramics:
Silica that has been ground to fine size is an ingredient of most clay bodies and is a major constituent of ceramic glazes. Typical everyday products include tableware, sanitary ware, ornaments and wall and floor tiles.

Filtration:
Closely sized grades of silica sand is the principal filtration medium used by the water industry to extract solids from wastewater.

Chemical Production:
Silicon-based chemicals are the foundation of thousands of everyday applications ranging from food processing to soap and dye production. In this case, SiO2 is reduced to silicon metal by coke in an arc furnace, to produce the Si precursor of other chemical processes. Industrial sand is the main component in chemicals such as sodium silicate, silicon tetrachloride and silicon gels.

Metal Production:
In metal production, silica sand operates as a flux to lower the melting point and viscosity of the slags to make them more reactive and efficient. Lump silica is used either alone or in conjunction with lime to achieve the desired base/acid ratio required for purification. Construction Use-Silica sand comes from mines.

4. **Storage and Handling:**
   Avoid moisture and keep at room temperature.
5. **Packaging:**

   As per customer requirement

6. **Shelf Life:**
   60 months, if properly stored in original unopened containers at temperatures between 10° C and 30°C, away from sunlight.

7. **Safety and Environmental Precautions:**

   Wear safety gloves, safety goggle & Safety Shoes/Gum Boots.

   The substance has not been classified at the EU level, under the dangerous substances and preparations regulation.