

# MIXTOP DSM

Cementitious dry shake floor hardener



the construction chemist...



## Introduction

**Mixtop DSM** is a ready to use factory blended cementitious powder, which has been formulated to provide hard wearing and colorful surface when applied as a dry shake over freshly floated concrete. Mixtop DSM contains specially selected aggregates with excellent abrasion and wear resistance along with cementitious binders, plasticizers and admixtures to provide a tough, durable and colorful floor.

## Appropriation

Used for providing a highly wear resistant and antiskid surface to newly laid concrete by the dry shake method. Mixtop DSM's best use in indoor and outdoor applications like ware houses, garages, factories, power stations, aircraft hangers etc.

## Characteristics

Provides a denser and more durable surface than the concrete itself  
Reduces dusting and resists oil and grease penetration which makes it easy to clean  
Factory mixed and ready to use mixture increasing the ease of application  
Ideal for interior and exterior use  
Available in a range of colours  
Forms a monolithic bond to concrete

## Technical Data and Properties

|                      |                                    |
|----------------------|------------------------------------|
| Standard Confirms to | BS 1881 part 116;<br>ASTM C 779 89 |
| Appearance           | Grey Powder                        |
| Specific Gravity     | 1.71G/CC                           |
| Compressive strength | 85 N/mm <sup>2</sup>               |
| Mohr hardness        | 7                                  |

Abrasion resistance (BS 8204 classification): AR' requires 3 kg/m<sup>2</sup>; Spl' requires 5 kg/m<sup>2</sup>  
Minimum resistance abrasion achieved: 220 % (normal concrete)

## Base Concrete Requirement

|                              |                        |
|------------------------------|------------------------|
| Minimum Compressive strength | 30N/mm <sup>2</sup>    |
| Minimum cement content       | 300 kg /m <sup>3</sup> |
| Minimum slump                | 75mm to 90mm           |
| Maximum air content          | 3 %                    |

Completely devoid of chloride admixtures and salt contaminated aggregates

## Product Management

**Preparation:** Calculate the total quantity of Mixtop DSM to be used, divide and mark the area into suitable bays and set out the bags evenly around the perimeter of the application area. Make sure that the required wooden hand floats and power floats are on site and ready to use.  
**Placing concrete -** With the least possible handling, deposit concrete between previously placed screed points. Move concrete into place with square tipped shovel or other solid bladed tools. Vibrators when used should be inserted vertically and should not be used to move concrete. The concrete once placed is further leveled and consolidated with wooden bull floats or hand floats. Remove any bleed water, which is present on the surface.

**Applying the first shake -** Transfer Mixtop DSM powder from the bags to pails of a size convenient for handling by the person walking on the freshly floated surface. When the concrete has set enough to leave a 3 - 6 mm footprint on the surface, start broadcasting 2/3<sup>rd</sup> of the quantity evenly over the surface. As soon as the material darkens, start working on the surface with wooden float. Power floats can be used but make sure that the surface is not overworked which results in excessive moisture surfacing.

**Applying the second shake -** As the floating proceed, immediately follow the process by broadcasting DSM, at right angles to the initial broadcast, the balance 1/3<sup>rd</sup> of the quantity set apart. Once the material darkens, float the surface with a power float bringing the moisture completely though. In the case of heavy duty application the first broad cast will be done only with the half the quantity. This is followed by two separate broadcasts each with the quantity and at right angle to each other.



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**Bay edges** - Extreme care and attention should be given at the bay edges and corners as they endure heavy wear and tear. Bay edges are usually reinforced with one of the following ways: Immediately after the leveling of the fresh concrete, sprinkle by hand at a rate of 5 kg/m<sup>2</sup> in strips of 10cm width along the bay edges (ie, 0.5 kg per running meter). OR Immediately after the leveling of the fresh concrete, remove a wedge of concrete 10mm deep at the edges. Then apply a stiff mass of Mixtop DSM mixed with clean water. This must be fully compacted to the base concrete. These reinforced areas will be further strengthened as subsequent full application is completed.

**Caution** - Timing of the broadcast is very important in the application of Mixtop DSM. Care should be taken that adequate labor, material and machinery is available to complete the whole area while the moisture is still available for the material to fully react and form the required finish. Conversely, the full benefit will not be achieved if the material is applied too early when bleed water is still present. Finishing of the surface should not be done with addition of extra water as this could prove detrimental to the whole system and also result in patch surfaces while using colored Mixtop DSM

**Curing:** Proper curing of the surface is very important for the achievement of the required physical properties of the finished floor. It is recommended to use Mixcure AC to obtain best results. Brackish water should not be used for any curing purposes

## Packing & Storage

Mixtop DSM is available in 25 Kgs bag. For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers. Mixtop DSM should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

## Health & Safety

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Avoid inhaling the product as it could result in irritations in the respiratory system. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. Ensure the container is available for the medical attendant to examine any relevant instructions and contents details. For more details, please refer to the MSDSM released on each Pychem product

Technical information given in this data sheet is true and exact to the best of our knowledge, laboratory upshot and hand-on application. The data sheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity and porosity of substrate may impinge on values



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