

## TECHNICAL DATASHEET

# ASCOSCREED

Specially Formulated High Strength Shrinkage Controlled Cement Binder For All Types of Floor Screed



## INDEX

RECOMMENDED APPLICATION	02
TECHNICAL DATA	02
PRODUCT KEY FEATURES	02
APPLICATION METHODS	03
SURFACE PREPARATION	03
PRIMING	03
COVERAGE	03
MIXING	03
APPLICATION	03
SUITABLE SUBSTRATES	04
PACKAGING	04
SHELF LIFE	04

## PRODUCT INTRODUCTION

ASCOSCREED is a specially formulated non-shrink, fast-setting, easy-spread, high strength and minimum curing concentrated cement binder. ASCOSCREED provides a shrinkage-free mortar bed and floor underlayment leveling screed that can be easily poured or pumped

## KEY FEATURES

1. Compatible with all tile-setting mortars, adhesives and floor coverings
2. Thinner sections compared to traditional screeds
3. Can be applied in wet areas
4. Self-compacting - No voids around under floor

## RECOMMENDED APPLICATIONS

1. Swimming Pool
2. Floor Space
3. Residential Flooring
4. Industrial Flooring
5. Above brick bat coba
6. Commercial flooring as a protection layer

## TECHNICAL PROPERTIES \*

Form	Free flowing lump free grey powder
Bulk Density	1700 ± 100 Kg/m <sup>3</sup> (Ratio @ 1:4), 1700 ± 50 Kg/m <sup>3</sup> (Ratio @ 1:6), 1650 ± 100 Kg/m <sup>3</sup> (Ratio @ 1:8)
Workability	50 ± 10 minutes
Water Demand	12 to 14 % by weight (depending on mix)
Application Temperature	+5°C to +40°C
Thickness	10-80mm
Compressive Strength (ASTM C 109)	(ASTM C 109) Mixing with crushed sand ≥28 N/mm <sup>2</sup> (7 days) (Ratio @ 1:4) (Heavy Duty) ≥20 N/mm <sup>2</sup> (7 days) (Ratio @ 1:6) (Medium Duty) ≥15.0 N/mm <sup>2</sup> (7 days) (Ratio @ 1:8) (Tiling Screed)
Flexural Strength	≥4 N/mm <sup>2</sup> (28 days) (Ratio @ 1:4) (Heavy Duty) ≥2.5 N/mm <sup>2</sup> (28 days) (Ratio @ 1:6) (Medium Duty) ≥2 N/mm <sup>2</sup> (28 days) (Ratio @ 1:8) (Tiling Screed)
Resistance to Abrasion—28 Days	2.5
Initial Setting Time	120 + 10 minutes
Final Setting Time	24 hours
Foot Traffic	24 hours
Coverage	Approximately 55 to 65 ft <sup>2</sup> per 20 Kg at mixing ratio of 1:4; Approximately 75 to 85 ft <sup>2</sup> per 20 Kg at mixing ratio of 1:6; Approximately 95 to 105 ft <sup>2</sup> per 20 Kg at mixing ratio of 1:8; (Ascocreed : crushed/river sand) @ 10-12 mm thickness

\* The values obtained are from laboratory testing conditions and at 27 ± 2°C. Onsite tests may show slight variation due to site conditions and/or methods of testing/application.

## APPLICATION METHODS:

### 1. Surface Preparation

All surfaces must be clean, dry and free from any contaminants such as dust, oil, wax, grease, curing agents or other substances that may affect adhesion performance. If it is a large area the surface should be treated by mechanical grinding or shot blasting. Building debris such as off cuts, sawdust, nails, screws, plaster, wood, etc. must be thoroughly cleaned with the help of wire brush, vacuum cleaner and/or damp sponge.

### 2. Priming

Normal concrete/screed requires priming with ASCOBOND diluted 1:1 with clean water. Particularly porous concrete/screed requires priming with ASCOBOND diluted 1:1 with clean water followed by a coat of undiluted ASCOBOND

### 3. Mixing

Trials should always be carried out to optimize the mix design before work commences. The quality of river sand should be graded, silt-free and dried. The screed is a blend of ASCOSCREED, sand/crushed sand and water. The mix proportions depend on the availability of local sand. A typical screed mix would be 20 kg of ASCOSCREED, 60/70 kg of sand/crushed sand and clean water to achieve the desired semi-dry consistency. All materials should be adequately mixed to ensure full dispersion of materials without lumps. Water demand should be 12-14% by weight of total dry mix.

### 4. Application

ASCOSCREED can be mixed in common concrete mixer. Spread/distribute entire ASCOSCREED on the concrete floor and compact mixed screed evenly to the desired thickness, using a long aluminum/steel straight-edge. Minimum thickness of ASCOSCREED should be 15 mm. After it is cured, FIXOBOND PLUS or other range of Ascolite's tile adhesives can be used to apply tile/stone. Prepared mix should be consumed within 30 minutes.

### 5. Cleanup

Clean mixer, working tools and hands with water while product is still fresh.

### 6. Curing

Water curing of 2-3 Days for 2-3 times per day is recommended in regular conditions. In case of extreme weather conditions, additional curing may be required. Do not over-water and protect from rain, weather and freezing until cured (24 hours). Protect from foot traffic for at least 3-6 hours at normal room temperature and humidity conditions. Protect from dirt, dust and damage from other trades until fully covered by a floor covering or tiling material. To avoid water curing, a suitable product from the ASCOCURE range, such as ASCOCURE WB 30 can be applied immediately after finishing.

## CAUTION:

1. Substrate temperatures should be above 5°C and rising.
2. ASCOSCREED RM are affected by extremes of temperature and consideration should be given to hot weather conditions as the ASCOSCREED RM will set fast and have shorter open time, in cold conditions the mortar will set slower and require extended time prior to traffic. Do not use below 5°C and above 40°C.
3. Avoid application if the work area may be subject to the onset of rain or moving water.
4. Do not part mix under any circumstances.
5. Movement and expansion joints should be provided as in conventional screeds.
6. Additional coating protection should be applied if the product is exposed to chemicals.
7. Materials not used within the specified time should be discarded.

## SUITABLE SUBSTRATES

1. Dry, completely cured concrete (>28 days)  
Existing ceramic and quarry tiles, porcelain, granite and marble.

## DISCLAIMER:

*While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at [www.ascolite.in](http://www.ascolite.in). Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.*

## HEALTH & SAFETY GUIDELINES:

This product contains cement, which becomes alkaline when wet and may cause skin irritation. Use goggles, gloves and protecting cream. Avoid prolonged contact with skin. Avoid inhaling the dust. Wash affected area with warm water and soap. Wash eyes thoroughly and consult a physician. Kindly refer Material Safety Data Sheet for further information.

## PACKAGING:

Available in 20 Kg plastic lined bags.

## SHELF LIFE:

9 months from the date of production if stored in original, unopened packaging & in places protected from moisture, sun exposure and frost.