



1st time in india

# SANDFREE<sup>TM</sup>

**ECO FRIENDLY PLASTER**  
Cement Based Premix • Self Curing



# Build a better India



The construction industry along with infrastructure development is the growth engine of India and has undergone a dramatic change in the last few decades. New materials, automation and sophisticated equipment have increased speed and reduced costs albeit, only till the structural stage.

At the post structural construction level, materials and processes still remain largely unchanged. Over 50% of construction projects suffer from delays and over spending and more than 30% of the completed projects have quality defects resulting in huge cost and time overruns. This is mainly because of increasing costs and lack of easy availability of materials like sand, bricks, labour and such essential resources. Delays are also due to inconsistency in materials, inefficiency of labour, talent, training and fatigue.

At Perlcon we look at these problems as opportunities. Built on the philosophy of making life simpler and better for builders, architects, contractors, masons and customers, Perlcon will cater to the needs of dry mortars for varied applications. With 12 dry mortar formulations that aid quick and better post structural construction, Perlcon will revolutionize the way India looks at construction materials.

Our offerings include light weight plasters, masonry mortars for bricks and blocks, insulation and moisture releasing plasters, decorative plasters, white and colour putties, tile/stone fixing mortars for vertical and horizontal surfaces and tile joint fillers in different colours.

Perlcon's range of dry mortar products are manufactured at Company's state of the art, modern, fully automated plant located near Ahmedabad. The plant has a production capacity of 1,00,000 MT per annum. Perlcon products are cement-based premix, developed using well researched and proven European technology, customized for Indian conditions.

Perlcon products are a move towards the future. They result in considerable savings of time, cost and labour. They make the operations easier, cleaner, dust free and ensure greater productivity.



# Sand free for a better world

The construction industry is facing a multifold problem when it comes to sand. While regular availability of good quality sand is a major concern in many regions of India, its mining depletes natural resources like river beds, basins and beaches causing heavy damage to the environment.

The process of sand procuring, filtration, sieving and mixing at site is highly time consuming. It is prone to pilferage, spillage and wastage. Inconsistencies in proportion of sand and cement are very common. Sand also makes the site dusty and messy. All these factors ultimately contribute to increased time, labour and cost.

Perlcon addresses all of these problems with its highly researched formulations, that are cement based but sand free. While these products reduce the burden on the environment, cost and time, they also tackle the issue of irregular availability of basic raw material.

These products are also lighter in weight, thereby making application easier and faster, reducing fatigue and increasing coverage.

## Good for the environment

Being sand free and self curing, Perlcon products are eco friendly. Perlcon is fully committed to the cause of green buildings and is a member of IGBC (Indian Green Building Council.)

# Self curing, saves water, saves time

In conventional mortars/plasters, moisture escapes to the substrate and also evaporates into the environment. The mortar layer dries up before it reaches peak strength, resulting in cracks. To avoid this, additional water is sprayed on the plaster for curing.

Whereas, Perlcon products have a special formulation that retains moisture in the mortar/plaster. Hence, they are self curing products and do not need any additional curing post application. There is also no requirement of pre wetting the substrate prior to application of Perlcon products.



# The SANDFREE™ advantage



## Technical specifications:

Dry density: 1600 kg/cum (+/- 5 %)

Initial setting time: 90 – 120 mins

Final setting time: 200 – 260 mins

Pot life: 3 hrs

Coating thickness: 10 – 18 mm

Coverage\*: 170 kg/100 sq.ft. (10 mm thick plaster)

Shelf life\*\*: 6 months

Ideal for use at 27°C - 30°C

Coverage:  
1.70 kg/sq. ft.\*  
(approx.)

10 mm thickness  
\*Under ideal conditions



\* When applied under controlled environment by skilled applicator and with proper tools

\*\* When stored in proper location with reasonable care. Under packed conditions.

Ever increasing demand for construction sand has caused rapid depletion of riverbeds and raised many environmental concerns. Aggressive and controlled sand mining has resulted in erratic supply and therefore greater fluctuation in prices as well as inconsistency in quality.

Conventional materials and methods of plastering are highly time consuming and involve more operations like procuring and sieving, which in turn lead to spillage and wastage.

Perlcon Sandfree Plaster is a unique cement based formulation developed specifically to overcome sand related problems like availability, quality, labour and time. Sandfree Plaster ensures consistent quality, fewer operation cycles and quick construction. It saves time and manpower. Self curing Sandfree Plaster also resolves the problem of water for curing.

Sandfree Plaster is a premix material supplied in bags. Apply Sandfree Plaster on walls, ceilings, RCC work by just mixing with water.

Sandfree Plaster is a better alternative to gypsum plaster as it is damp proof, cement based and gives a crack free plaster surface, with quicker application.

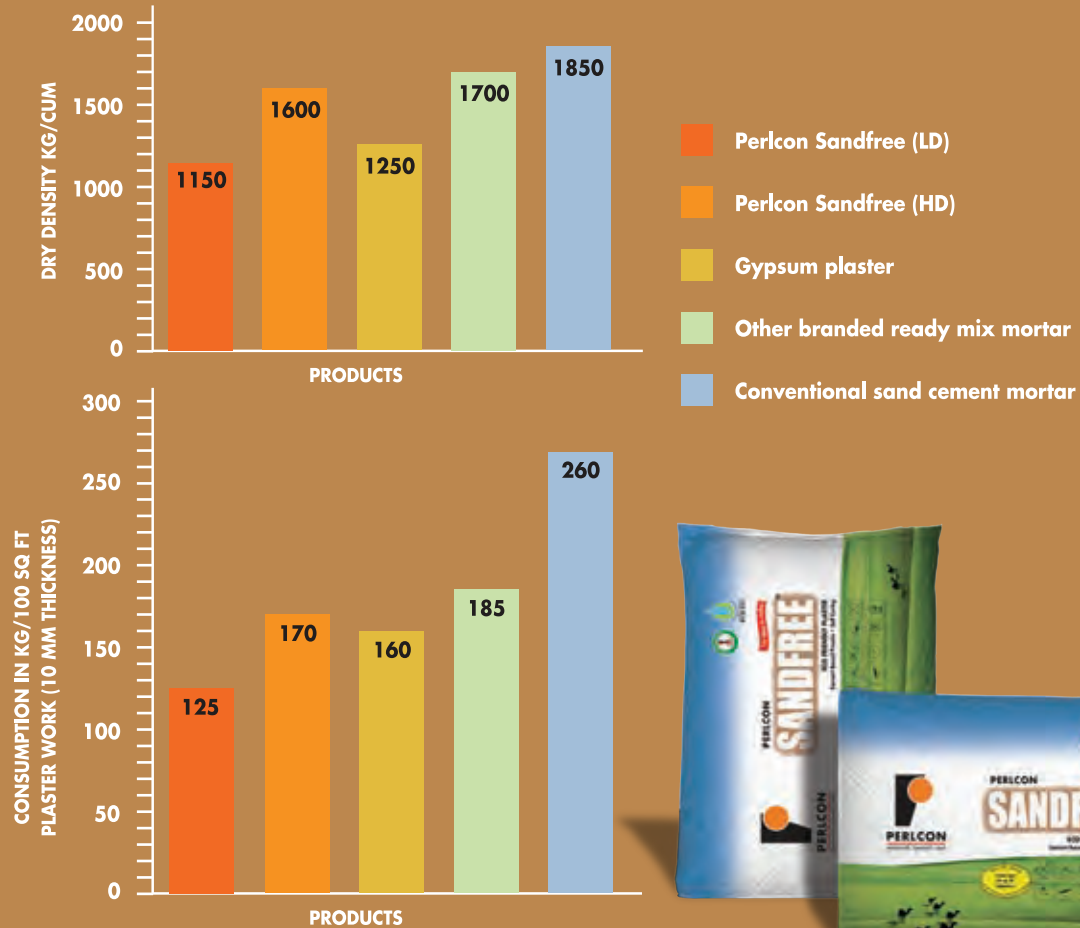
# SANDFREE™

**The advantage of cement plaster without sand**





# Sandfree coverage and density vis-a-vis conventional mortars



# FAQS

**Q. Can Sandfree Plaster be applied on all types of masonry work?**

A. Sandfree Plaster can be applied over red clay bricks, fly ash bricks, concrete hollow blocks or AAC blocks masonry surfaces as well as over RCC surfaces. Sandfree Plaster is ideal for both external and internal application.

**Q. Is Sandfree Plaster crack free?**

A. Sandfree Plaster is non shrinking and self curing, which reduces the possibility of surface cracks.

**Q. Is Sandfree Plaster a suitable sub base for all types of painting?**

A. Yes, once MaskaPutty or other suitable skim coat is applied, all types of paints can be applied on a Sandfree Plaster wall.

**Q. Can Sandfree Plaster be used during repair/renovation along with existing sand cement plastered surfaces?**

A. Yes, SandFree Plaster Premix is ideal for all types of repairs & renovation work. In fact, it provides better surface matching without any cracks/later date separation.

**Q. Does wall surface need to be wet prior to application of Sandfree Plaster?**

A. Wall surfaces need not be pre wetted prior to Sandfree Plaster application. However, if day temperature is above 35°C, surface wetting before 2 hours of plaster application is recommended.

**Q. Does Sandfree Plaster require special tools or a different mixing and application style compared to sand cement mortar plaster?**

A. Ideally, Sandfree Plaster should be machine mixed and should be applied with proper tools as per sequential steps suggested earlier.

**Q. Can Sandfree Plaster be mixed manually at site?**

A. Yes, with little care and precaution, material can be mixed with water manually at site.

**Q. How much water is required for making Sandfree Plaster wet mix?**

A. About 18% (+/- 5%) the weight of Sandfree Plaster premix.

**Q. To what extent does plaster add strength to wall surfaces?**

A. Technically, plaster does not play any role in enhancing wall strength. In fact, plaster with higher strength (rich plaster) tends to crack out often, leading to frequent maintenance.

# How to apply

Apply on dry masonry surface only • Clean the wall surface & open out the joints thoroughly



1 Fill a clean pot with potable water measuring 18% (+/- 5%) the weight of Sandfree Plaster (1 kg Sandfree Plaster : 0.18 litres water).



2 Now pour Sandfree Plaster into the pot. Mix and knead slowly to form a homogeneous paste. Let the mixture stand for 10 minutes. Mix the green mortar again without adding more water.



3 Evenly apply a coat of Sandfree Plaster with a mason's trowel or with aluminum level patty.



4 Apply aluminum level patty from bottom to top direction followed by left to right & right to left direction without leaving stroke marks to level the plaster.



5 After initial setting apply aluminium scrapping patty to achieve true level and create a rough texture for subsequent coat.



6 Over smaller area and in corners, apply gridded float to open out plaster surface. Remove loose particles.



7 After 45 min apply steel/float/muster, if necessary with little sprinkling of water to achieve perfectly leveled plaster surface.



8 Smooth, leveled, Sandfree Plaster wall is now ready. No curing is required.

## Tools

Muster



Trowel



Gridded float



Level patty



Scrapping patty

