

EXPEDITED SUBFLOOR PREPARATION SYSTEM





MAPEI's Expedited Subfloor Preparation System

MAPEI's Expedited Subfloor Preparation System (ESPS) is a system of high-performance products specifically designed to create a flat and dry subfloor that is ready for floor-covering installation on schedule and on time.

MAPEI'S ESPS is a proactive construction technique that offers benefits not achievable by utilizing current concrete finishing practices. MAPEI's ESPS improves the construction process by:

- Compressing the construction schedule.
- Improving overall project quality.
- Reducing construction cost.
- Managing risk.
- Opening the facility sooner (and jumpstarting the revenue stream).

MAPEI's ESPS is installed long before the floor covering is even delivered to the jobsite. It can be installed 5 days after the concrete is placed and well in advance of any sign of the HVAC systems being installed or even the completion of the building envelope.

Traditional subfloor-preparation materials are bound by constraints of environmental control, by concrete slab moisture levels and by the need to be covered as quickly as possible to avoid damage.



MAPEI's ESPS is based on robust, epoxy moisture-barrier solutions combined with specifically engineered cement-based leveling compounds that have been designed to withstand extremes in temperature, liquid or freezing water exposure, and the rigors of construction traffic.

MAPEI's ESPS consists of the following products and conditions:

1. Broom-finished, bull-floated or shotblasted concrete that is at least 5 days old
2. *Planiseal*® VS alkali-resistant, epoxy moisture-reduction barrier or *Planiseal VS Fast* fast-track, alkali-resistant, epoxy moisture-reduction barrier
3. *Primer E*™ high-performance, 100%-solids epoxy primer, with a sand broadcast
4. *Ultraplan*® *Extreme 2* weather-resistant, high-compressive-strength, self-leveling underlayment

By specifying MAPEI's ESPS at the front end of the construction cycle, the general contractor can expect to gain the following benefits and cost savings:

| CSI Division | Benefit |
|------------------------------|--|
| Division 3 – Concrete | More concrete can be placed faster with less energy because MAPEI's ESPS works best on bull-float or Fresno trowel finishes. There's no need to laser-screed or power-trowel, and no need for curing compounds or the labor to apply/remove them. MAPEI's ESPS controls curling and manages moisture and pH early in the construction cycle. Plus, it helps to simplify installations by related trades with proper finished floor elevations, thereby helping to manage critical path method (CPM) schedules. |
| Division 5 – Metals | MAPEI's ESPS isolates metal studs and other ferrous materials from corrosion due to high-alkalinity concrete surfaces. In addition, it reduces wasted materials, labor and time by providing a dimensionally surface on which to build, and it provides plug-and-play consistency for manufactured and offsite-built components. |
| Division 6 – Wood & Plastics | Thanks to MAPEI's ESPS, finished carpentry, cabinetry, baseboards and other wall-mounted components are level and true, eliminating the labor and time required for adjustments. |
| Division 9 – Finishes | MAPEI's ESPS eliminates the wait time for concrete to acclimate or dry, eliminates the need for moisture testing because the system is already dry and protected, and reduces preparation requirements to bring the subfloor into compliance with the floor finish. |



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Keyword: MAPEI Americas

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