

SmartPave HP

Acrylic Polymer Cementitious Coating (APCC)

SmartPave HP is a two-component pre-packed high performance acrylic polymer modified cement based mortar designed for all types of resurfacing, patching and repairing of concrete surface. Part A is a blend of special cement, specially graded fillers and chemical additives. Part B is a polymer emulsion of the latest latex technology. Old worn out concrete pavements resurfaced with a thin layer of **SmartPave HP** exhibits exceptional durability and good skid resistance

FIELDS OF APPLICATION

- Resurfacing of worn out concrete floor
- Patching and repairing of damaged concrete surfaces
- Topping for new concrete floors to increase the skid and wear resistance
- Suitable for interior and exterior application, e.g. warehouse, car parks & driveways, bus bays, concrete roads, docks, etc.

BENEFITS

- Excellent bond strength to substrates.
- Excellent abrasion and impact resistance.
- High flexural and tensile strength.
- Consistent factory quality controlled product with pre-packed components.

TECHNICAL DATA

Property	Typical Results
Compressive Strength (ASTM C109 : 1999) 7 days 28 days	30 MPa 45 Mpa
Flexural Strength (ASTM C348 : 1997) 28 days	15 Mpa
Tensile Strength (ASTM C190 : 1996) 28 days	8 Mpa
Shear Bond Strength (ASTM C482 : 1996) 28 days	7 Mpa
Adhesion Bond Strength (ASTM D4541 : 1993) 28 days	1.5 Mpa
Skid Resistance (ASTM E303 : 1998)	65 BPN
Abrasion Resistance (ASTM C4060 : 1995)	H22; 100 cycles 1kg load Weight loss 0.3gm
Water Penetration (DIN 1048 : Part 5 : 1991)	No observable water penetration
Yield for 1 set of 29.5kg	Approx. 15 litres

DISCLAIMER

All information was prepared carefully, using current references available to us. Information provided is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/herself as to the suitability and completeness of information provided here for their intended use. We do not accept liability for any loss or damage that may occur from the use of this information.

APPLICATION PROCEDURE SUFRACE PREPARATION

- Scarify the surfaces where **SmartPave HP** is to be applied on.
- Clean the surfaces and remove any dust, oil, grease or other contaminants.
- Defective and unsound substrate has to be removed and repaired prior to application of **SmartPave HP**.
- Existing substrate expansion joint is to be continued through the new topping and any moving crack should be isolated with a movement joint.

PRIMING

- Prime the surface with **SmartPrime SL** (approx. 7-10m²/ltr) and allow it to dry prior to the application of **SmartPave HP**.

MIXING

- Mixing place should be as close to the area of placement as is physically possible.
- Add powder Part A (25kg) to pre-weighed amount of Part B in a pail (4.1- 4.5kg depending on the consistency required). Mix well with a hand held drill mixer until a homogeneous lump-free mix is obtained.

PLACING

- Immediately after mixing, apply well-mixed **SmartPave HP** with a metal trowel to the primed surface at thickness of minimum 3mm to maximum 6mm in one layer. (Coverage : approx. 5m² per set for 3mm thick)
- For placement of more than 1 layer, each subsequent layer should only be placed after the previous layer completely cures and hardens (a minimum of 24 hours).
- For anti-skid surface, brooming to desired texture may be done shortly after initial set.

CURING & TREATMENT

- Dry curing is essential to **SmartPave HP**.
- Where rapid drying conditions exist, such as high temperature, direct sunlight, and strong wind, **SmartPave HP** should be protected by a polythene sheet to reduce water loss.
- Curing compound is not needed.

LIMITATION

- Do not apply **SmartPave HP** at temperatures below +10 C and above +40 C.
- Applied thickness is limited to 3mm - 6mm.
- Do not use **SmartPave HP** to repair moving cracks or existing concrete expansion joints.

PRECAUTIONS

- Avoid eye contact and unnecessary skin contact as the product is alkaline.
- Gloves, goggles and dust mask should be worn.
- Avoid inhalation of dust during mixing.
- Wash thoroughly after handling.
- In case eye contact, flush with plenty of clean water. Seek medical help immediately.

PACKAGING & STORAGE

SmartPave HP is supplied in 29.5kg bags set consisting of Part A - 25kg of powder in bags and Part B - 4.5kg of emulsion in containers.

SmartPave HP has shelf life of 9 – 12 months if stored in a cool and dry place in sealed packaging with sheltered protection from rain and sunlight.

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