KISCRETE AP

Acrylic Polymer Cementitious Coating

DESCRIPTION

KisCrete AP is a specially-designed two-component pre-packed high performance acrylic polymer modified cement-based mortar suited surfaces that requires high abrasion, impact and skid resistances.

RECOMMENDED USE

- Act as topping to new and existing concrete floors to increase surface skid and wear resistance.
- Act as screed over to concrete roof gutters
- Repair and resurface to damaged concrete surface, flooring, runways etc.

ADVANTAGES

- Excellent impact, abrasion and skid resistant
- Can be open to traffic in a short period of time
- Excellent adhesion to new and old concrete,

PACKAGING

KISCRETE AP is supplied in 30 kg Set
Part A – 5 kg Liquid in Can
Part B – 25 kg powder in Bag

Packaging size may vary subject to local regulations and requirements.

COVERAGE

- 1 set of KISCRETE AP is expected to cover an area of 12 square meter (1 coat).

APPLICATION GUIDELINES

a) Surface Preparation

Surface must be clean and free of voids, loose materials, oil grease, curing compounds, sealers and any foreign matters using suitable tools.

Primer surface with KisCote Acryl Primer using roller or brush at coverage of approximately 8-10 m2 per litre

Leave to dry for approximately 30 minutes before application of KisCrete AP

b) Mixing

Stir Part A into a pail and and add in Part B slowly. Mix Ratio at 1:5 (Liquid: Powder). Stir well with hand-held mixer A homogeneous lump free mixture is obtained.

c) Application

- Apply the mixed material onto the primed surface and apply evenly using a squeegee or steel trowel.
- The consistency of the mixture allow application of 3mm-6mm in a single layer
- For application of 2nd layer, it should only be placed after 1st layer has hardened for minimum of 24 hours.

- To achieve anti-skid surface, brooming to desired texture may be done after initial set.
- Do not apply KisCrete AP at temperature below +10°C and above + 40°C
- Do not use KisCrete AP for repairing moving cracks or existing concrete expansion joints.

d) Surface Maintenance

Dry curing is essential to KisCrete AP. Surface must be protected by a polythene sheet to reduce water loss under rapid dry condition

STORAGE

Material should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 1 year can be expected.

TECHNICAL PROPERTIES

KISCRETE AP	
Appearance	Part A 5 kg Liquid Part B 25 kg Powder
Compressive Strength (ASTM C109/C109M)	≥ 35 N/mm^2
Flexural Strength (ASTM C348)	≥ 8 N/mm^2
Tensile Strength (ASTMC307)	≥ 5 N/mm^2
UV Accelerated weathering (ASTM G154)	No cracking, softening or delamination after exposure for both 500 hours and 1000 hours
Water absorption after thermal aging (%) (ASTM C413)	≤10% after 30 minutes water immersion
Flowability (ASTM C939)	≤150 sec
Tension Adhesion bond strength (BS EN 13892-8)	≥1.0 N/mm^2
Polymer identification (FTIR):	Does not contain polyvinyl acetates (PVAs)
Skid resistance (ASTM E303)	≥ BPN 55 (wet condition) on wooden trowel
Taber abrasion (H22 Wheels) (ASTM D4060)	≤1.5g weight loss/1000 cycles
Shear bond adhesives (ASTM C482)	≥2.0 N/mm2
Water penetration (DIN 1048)	Penetration depth ≤ 5mm