ARDEX WPS 18

High Strength Flexible Waterproofing Slurry

Flexible, high solid, can cover crazing

Good water resistance and durability

High Bonding strength, no debonding, peeling or falling off

High tensile strength-can install heavy brick and stones on waterproofing layer

No precipitation and easy to apply

Environmentally friendly, non-toxic and hazard free

ARDEX WPS 18
High Strength Flexible Waterproofing Slurry

DESCRIPTION:
ARDEX WPS 18 is a high strength polymer modified cement based flexible waterproofing slurry. It can be used on most substrate such as concrete and cement screed and has excellent boding strength. Suitable for surfaces with slight deformation and cracks, it is waterproof and permeable, anti-precipitation and easy to apply. This product is especially suitable for large area waterproofing coating of rigid walls and floors.

AREAS OF APPLICATION
Internal & external; Residential & Commercial; Walls, floors;
Substrates: Fully cured concrete, render/screed, wet area grade fiber cement sheets, set plaster, plasterboard, etc.
Suitable for waterproofing areas with covers such as balcony, bathroom, kitchen, pantry, etc.

SUBSTRATE PREPARATION
The surface to be coated should be sound, clean and level, but doesn't need to be smooth. It is recommended to use ARDEX P 51 or ARDEX P 60 for interface treatment before coat application.

The internal and external corners should be treated as per ARDEX advices; if leakage occurs, fix the leakage first; fill and strength the big cracks prior to application, the substrate should be free from dust, oil and rust; new concrete should be left for a minimum of 28 days before application commences. Dense concrete (>40MPa) and steel trowelled concrete should be roughened by suitable mechanical means.

INSTALLATION
Only the substrate after preparation can be coated with ARDEX WPS 18.
Mixing
Mix the powder and liquid until a soft, creamy mortar is obtained, mix it again after 2 minutes.
Applying
1. Apply the first coat in the same direction by using a roller or paint brush, make sure the whole substrate is fully covered without air bubbles or pinholes. The coating must be uniform, wet film thickness is 1.0mm per coat;
2. After the first coat allow to dry for 4 hours (temperature, humidity and ventilation may extend or shorten curing time), apply the second coat in the opposite direction to the first(two coat wet film thickness is 2.0mm);

3. If the film is found wrinkled or debonded, it should be cut open and use waterproofing slurry to fix and strengthen the area;
4. Allow to dry and cure for 72 hours, then closed water test and other application may commence (if no closed water test, other application may commence after 48 hours).

Note:
During and after application, the waterproofing coat should be under good protected, it is not allowed to walk on before the film is fully cured; the film cannot be in contact with water or wet subject and cannot be subject the flooring to sharp heavy loads or move objects.

COVERAGE:
If the wet film is 1.0mm, the usage is 1.97kg/mm/m2 (Actual usage may vary according to substrate and actual application thickness).

PACKAGING:
18kg/set(2 bags of liquid，2 bags of powder):
Liquid 4.2 kg，powder 13.8kg
32.5kg/set（1 bucket of liquid，1bag of powder）:
Liquid 7.5kg，powder25kg

STORAGE & SHELF LIFE
12 months when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity.

TECHNICAL DATA
Description
Powder appearance   Green, slurry when mixed

Mortar
Wet-mixed Mortar Density:
                                approx. 1.97kg/L
Mixed Volume Solids: approx. 82%

In 23°C and 50% RH
Recoat: 4 hours
Closed water test: 72 hours
Tile after: 48 hours

Physical Properties
In accordance with Chinese standard JC/T2090-2011 (Type I)

Compression strength:	≥ 12 MPa
Rupture strength:	≥ 4 MPa
Bonding strength	≥0.7MPa
Flexibility and lateral deformation	≥2.0mm
Water permeability	≥0.5MPa
Alkali resistance	No crack or peeling
Heat resistance	No crack or peeling
Frost resistance	No crack or peeling

ARDEX Quality Standard

Compression strength:	≥ 24 MPa
Rupture strength:	≥ 8 MPa
Bonding strength	≥1.0MPa
Flexibility and lateral deformation	≥2.0mm
Water permeability	≥1.0MPa
Alkali resistance	No crack or peeling
Heat resistance	No crack or peeling
Frost resistance	No crack or peeling

HEALTH AND SAFETY
ARDEX WPS 18 is non-hazardous in normal usage, however it contains Portland cement and quartz sand and is irritating to eyes and skin under long time exposure. For this reason avoid generation of airborne dust during mixing and inhaling dust; avoid contact with skin and eyes; wear suitable protective devices such as dust proof mask, gloves and goggles. In case of contact with eyes, rinse immediately with plenty of water for a couple of minutes. If inhaled, keep good ventilation and wash mouth with fresh water. Seek medical advice if unwell symptoms occur. ARDEX FG 1 is safe for human body and environment when hardened.
For further information, consult Material Safety Data Sheet (MSDS).