

UNICHEM AQUAPLUG

FAST SETTING CEMENTITIOUS WATER PLUG

UCA-PP-09-0722

DESCRIPTION

UNICHEM AQUAPLUG is a single component, rapid setting, chloride-free powder, which when mixed with water becomes a rapid setting mortar. It helps in stopping running water seepage through cracks or holes in concrete or masonry walls.

USES

- ❖ Plugging water leaks in concrete or masonry surfaces
- ❖ Stopping seepages along cracks or joints at floor-wall joints
- ❖ Patching and plugging of brick tunnel linings, basements, foundations, concrete pipes.

ADVANTAGES

- Rapid setting and high early strength
- No cracking and very low shrinkage
- Easy to use, no special equipment needed. Sets in 3 to 5 minutes.*
- Excellent bonding to the substrate
- Contains no chloride admixture

* Setting time depends on ambient temperature, cold weather delays setting while hot weather accelerates setting. Setting time mentioned is based on 25 °C The use of chilled water may be necessary in very hot weather

TYPICAL PROPERTIES

APPEARANCE	Grey alumina-cement based powder
SETTING TIME*	<5 MINUTES @ 25 °C. * Setting time depends on ambient temperature, cold weather delays setting while hot weather accelerates setting. Setting time mentioned is based on 25 °C The use of chilled water may be necessary in very hot weather
PACKAGING	5 Kg, OTHER SIZES AVAILABLE ON REQUEST
COVERAGE*	2.5 liters per 5 kg bag of UNICHEM AQUAPLUG *Actual coverage based on substrate condition, application method, wastage etc.
MIX RATIO	0.6 TO 0.7 Kg water (600 to 700 ml) for 5 kg
BY WEIGHT	100:12 to 100:14 (UNICHEM AQUAPLUG : WATER)
WET DENSITY	~1.9 – 2.2 kg/L @ (23 °C)
COMPRESSIVE STRENGTH	3 HOURS >12 MPa
ASTM C109 (50 X 50 mm cube)	24 HOURS > 25 MPa

The values given above for typical properties are average figures achieved in controlled laboratory conditions. Actual values obtained on site may show minor variations from those quote

INSTRUCTIONS FOR USE

SURFACE PREPARATION

Concrete, mortar, brickwork: The substrates must be sound, clean, free from oil, grease, dust or laitance. If possible open the area to be treated to a roughened surface for better adhesion. If water is merely seeping, enlarge the crack at least 10mm x 10mm (width and depth) for the entire length. If water leak is under pressure, chip-out forming a inverted 'V'.

Porous substrates must be pre soaked prior to application

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MIXING

For 5 kg of UNICHEM AQUAPLUG mix with 600 to 700 ml of water.

Mix to a stiff consistency. Due to the rapid setting nature of UNICHEM AQUAPLUG, mix only those quantities of that can be used immediately

APPLICATION

Make a plug by rolling the mix in to a cone shape that is slightly larger than the hole. Roll in the gloved hands until it hardens a bit, then place the small end of the plug into the hole. Tamp it into place and hold the plug until initial set. Strike off flush with the surface if desired

Note: UNICHEM AQUAPLUG is not meant to be used as a permanent/long term waterproofing solution. It is only recommended as a quick temporary fix.

STORAGE & SHELF LIFE

Original sealed bags of UNICHEM AQUAPLUG has a shelf life of 6 to 8 months. UNICHEM AQUAPLUG is hygroscopic in nature and must be kept away from moisture. Keep away from extremes of temperature in a shaded cool place.

SAFETY PRECAUTIONS

Do not use any curing compounds. It is a cementitious alkaline product. Care should be taken to avoid contact with eyes, skin, mouth and food stuff. Any splashes on the human body must be washed with plenty of water.

LIMITATION OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.

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