System 300

NEWTON 313-WP WATERPLUG

Fast Setting Polymer Compound

Rev 4.1 - 30 June 2021

PRODUCT CODE - 313-WP

INTRODUCTION

Newton 313-WP WaterPlug is a fast-setting, polymer compound that instantly stops running water or seepage through masonry or concrete substrates. It becomes harder and more resistant when subjected to constant water pressure. Newton 313-WP WaterPlug is a non-shrink material that expands slightly and sets in about 1 minute and is fully cured in 4 minutes. Lower ambient, substrate and water temperatures will slightly delay the set time and higher temperatures will accelerate the set time.

KEY BENEFITS

- Simple to use - mix with clean water
- Quickly stops running water
- Does not include chlorine
- Fibre-reinforced and polymer-modified
- Non-shrink
- Exceptional durability
- Non-toxic
- Excellent adhesion

TYPICAL APPLICATIONS

- Leak sealing prior to tanking with Newton liquid waterproofing products
- Sealing of leaks at wall/floor junctions
- Sealing of leaking mortar joints
- Leak sealing of cracks in masonry or concrete

MIXING

Mix Newton 313-WP WaterPlug with clean water only. Add just enough water to form a putty consistency, about 1 part water to 5 parts powder by volume. Do not use more Newton 313-WP WaterPlug than can be placed in 3 minutes, whilst allowing for only a 30 second mixing period. Place with minimum working or rubbing. Force Newton 313-WP WaterPlug into the crack or hole by pushing firmly; using maximum pressure. Keep damp for at least 15 minutes to help curing.

Above normal temperatures

Newton 313-WP WaterPlug begins to set very quickly when the temperature is above 25°C. For best results make sure product and mixing water are below 25°C at time of application, otherwise set will begin immediately and structural strength will be weakened.

To slow down the setting action during warmer conditions use iced water to the mix.

Note: Extreme weather conditions will delay or accelerate Newton 313-WP WaterPlug setting time.

APPLICATION

To help key the material always dovetail cut or cut square; do not use V-cut. Open the crack or hole by cutting to a minimum width and depth of 20mm. Flush away all cuttings and dust.

Sealing Wall/Floor joints

Cut out the crack to a minimum width and depth of 20mm, while cutting back into the wall slightly. Flush away all cuttings and dust. Smooth out the crack by forcing a round tool inside. Form a fillet at the junction.

Sealing against flowing water

Cut out the crack or hole to a minimum width and depth of 20mm. Dovetail cut if possible. Start at the top and force Newton 313-WP WaterPlug into the crack. At points of greater pressure, do not place into the opening immediately.

Form a ball in a gloved hand and then press firmly into the opening, holding in place until the mortar becomes hard. After stopping active water, evenly patch the surrounding wall surfaces.

When filling the cracks, start at the top and fill the crack downwards.

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Fast Setting Polymer Compound

TECHNICAL DATA

Features	Result	Units
Form – One component	Powder	
Colour	Grey brown	
Pack size	25	kg
Yield per kg	0.55	Litres
Mixing time	30	Seconds
Pot life @ 20°C & RH of 60%	2-3	Minutes
Odour	None	
VOC content	None	
Placement time	2-3	Minutes
Fully cured	4	Minutes
Application temperature	+5 to +40	°C
Service temperature	-20 to +70	°C
Shelf life	6	Months

To repair leaking mortar joints and cracks in masonry walls or cracks in concrete walls

Cut out the defective mortar joints or cracks to a minimum width and depth of 20 mm. Dovetail cut if possible. Force Newton 313-WP WaterPlug into the crack and keep damp for at least 15 minutes.

CONSUMPTION

1.75 kg = 1.0 litres.

COMPRESSIVE LOAD CAPABILITY

- 1 hour - 7.85 N/mm^2
- 2 hours – 12.75 N/mm^2
- 1 day – 29.43 N/mm^2
- 28 days – 44.14 N/mm^2

CLEANING

Thoroughly clean all tools and equipment with water after use.

PACKAGING

Newton 313-WP WaterPlug is supplied in 25kg containers.

STORAGE

Newton 313-WP WaterPlug 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 up to 6 months can be expected.

Once opened, some hardening of the stored product will occur due its exposure to the atmosphere. However, in the ideal storage conditions outlined above, a shelf-life of between 3 and 6 months can be expected.

HEALTH & SAFETY

Use appropriate PPE for the environment the system is installed within. Use products only as stated within this Data Sheet and the SDS.

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