

ROCK SEAL 777

(Flexible Protective and Waterproofing Slurry)



Description

A cement base, 2 component polymer modified waterproofing slurry. It is applied to concrete and mortar structures to prevent water infiltration.

ADVANTAGES

Rock Seal 777 provides the following beneficial properties:

- Pre-batched components.
- Mixed and applied easily & it can be spray applied.
- Slurry or trowelable consistency.
- Good adhesion to sound substrates.
- Impermeable and protection against concrete carbonation (80 microns Rock Seal 777 is equivalent to 6 inches of concrete).
- Increased frost and salt resistance.
- Non-toxic and slightly flexible.
- Non-corrosive to steel or iron & over-paintable.

FIELDS OF USE

Rock Seal 777 is used for external and internal waterproofing, crack sealing, repair work and protection from frost and detrimental effects of de-icing agents in the following structures:

- Sewage treatment facilities including concrete tanks, digestors, clarifiers etc...
- Water treatment facilities.
- Waterproofing basement and cellars.
- Terraces and balconies.
- Bridges & Sea walls.
- Retaining walls & for sealing "hairline" cracks in concrete structures not subject to movement surfaces.
- Swimming pools and waterproofing of drinking water tanks and reservoirs.

APPLICATION

Mixing

The consistency of the mix can be altered by reducing the amount of component (A) (liquid) to be used. Under normal circumstances, when the full quantities of both components are mixed together, a slurry consistency will result. For a trowelable consistency use only 90% of component (A) (approx. 4.5 kg) Mix in a clean container by slowly adding the powder component to the liquid component and stirring with slow speed mixer.

Application

While the surface is still damp (no standing water) apply the first coat and leave to harden (2-6 hours). For slurry consistency, apply with a hard-plastic bristled brush or broom. For trowelable mortars, use a notched trowel. After the second coat has been applied, finish by rubbing down with a soft dry sponge.

After application of the second coat, finish Rock Seal 777 by rubbing down with a soft dry sponge. In case of a third coat, scratch the surface of the second coat with the edge of the trowel to provide a mechanical key.

Cleaning

Do not leave material to harden before cleaning tools and equipment with water. Hardened material can only be removed mechanically.



SEALVERGE
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PRODUCT DATA

DISCRIPTION	VALUE
Colour	Grey, White, Beige and light blue
Chemical Base	Part A: liquid (Styrene acrylic) polymer and additive Part B: Portland cement selected aggregate and admixtures
Density	Comp (A+B) = 2.0 kg/l (mixed)
Compressive Strength	30 - 40 N/mm ² at 20°C after 28 days (mortar consistency) (ASTM-C-942 / C-579) I.S.O. Quality assurance laboratory Results.
Flexural Strength	10 - 12 N/mm ² at 20°C after 28 days (mortar consistency). (ASTM-C-580)
Bond Strength	Approx. 2 - 3 N/mm ² after 28 days (sand blasted). (ASTM-C1042/85 - C-321)
Mixing Ratio	Slurry 1: 4 by weight Mortar 1: 4.5 by weight
Waiting Time / Over-coating	Waiting time between coats: +10°C ~ 12 hours +20°C ~ 6 hours +30°C ~ 3 hours If waiting time period exceeds 24 hours, lightly blast clean the surface. Rock Seal 777 can be over-painted using solvent based primers or coat-ings. Rock Seal 777 must cure for a minimum of 7 days before over-coating.

COVERAGE

Depending on type of application, two (2) coats always required. Three (3) coats may be required in areas of extremely high infiltration.
1st coat consumption 1-1.5 kg/m² on damp surface.
2nd coat consumption 0.8 - 1 kg/m² approx.

SURFACE PREPARATION

Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. All surfaces must be as true and flat as possible. Saturate absorbent surfaces thoroughly with water before application.

RECOMMENDATIONS

Minimum ambient and substrate temperature +8 °C. Never apply more than 4 kg/m² for one layer. Avoid application in direct sun and/or strong wind. Do not add water in any circumstances. Apply only to sound, prepared substrates. Do not exceed maximum layer thickness.
For waterproofing or damp proofing application, always use at least 2 coats to give a total thickness of between 1.0 to 1.50 mm. In areas of severe water penetration, three coats might be required.

CURING

As with all cement based products, curing is important. Protect newly applied product against direct sunlight, wind, rain and frost In severe heat and/or wind, protection of the Rock Seal 777 is recommended For water tanks and swimming pools, it is essential to cure Rock Seal 777 immediately after application for a minimum of 3 to 5 days to ensure full cement hydration and to minimize cracking. Use polythene sheeting or similar approved methods.

NOTE :

Packaging : 20 kg (A+B)
Storage Conditions : Free from frost and moisture.
Shelf Life : 12 months when unopened.