



Polyurethane Base Coat

info@shieldcreteinternational.com
www.shieldcreteinternational.com

Product Description

ShieldProof 110 is a two-component flexible base PU membrane coating which on curing forms to an impervious rubberized membrane.

ShieldProof 110 is based on an advanced technology of polyurethane elastomeric coatings to offer a cured film which has excellent elongation, toughness, tear strength and superior water resistance. It is a cold cured, liquid applied seamless membrane which has shown remarkable crack bridging properties.

ShieldProof 110 is ideally suited for waterproofing of roof tops, external and internal walls, AC and MS sheet roofing, ablution, kitchen, internal and external gutters, decks, and most internal and external waterproofing requirements.

Properties

Classification	Aromatic Polyurethane
Color	Grey
Mixing Ratio	2 : 1 by Weight
Solid Content	98%
Pot Life @ 25°C	30 – 45 minutes
Theoretical Rate	1.35kg/sqm @1mm
Hardness	38 - 45 Shore A
Tear Strength	10 - 15 KN/m
Tensile Strength	2 MPa
Elongation	400 - 600%
Crack Bridge Ability	Passed. ASTM C 836

System Specification

Roof Deck	1.5 mm minimum
Traffic System	1.0 - 2.0 mm*
Walls	1.5 mm minimum
MS Sheet Roofing	1.0 - 1.5 mm**
Gutters	1.5 mm minimum
Under Screed	1.5 mm maximum
Over Screed	1.5 mm maximum

*Refer to Traffic Shield for complete System
**Bandage System required.

Additional Requirement

ShieldSeal 743	Old and New Concrete
ShieldSeal 578	Contaminated Concrete

Note: ShieldSeal concrete protection can be used as a stand-alone waterproofing solution. Contact SCS for more information.

Application Procedure

As a full system requirement, ShieldCrete® recommends using ShieldSeal (743/578) as an initial concrete enhancer/treatment to promote a sound and stable concrete prior to the application of waterproofing system. ShieldSeal penetrates through the concrete capillary which blocks this micro passage making the concrete slab watertight, this ensures that ShieldProof membrane will have more adhesion to the surface.

If ShieldSeal is utilized, wait for 24 hours before proceeding to primer application. Ensure that the concrete is clean, dry, and sound. Apply the primer coat (as recommended) and allow to dry for 6-7 hours. If more than 36 hours has lapsed, the prime coat needs to be lightly abraded before ShieldProof 110 is applied. Cracks and joints should be sealed with polyurethane sealants.

Mix part B thoroughly before mixing with Part A. Mix ShieldProof 110 in 2:1 ratio by weight. Agitate the mixture for 3-5 minutes. Apply when air, surface, and material temperatures are between 18°C and 32°C. The surface temperature should be at least 5°C above the dew point to prevent moisture condensation.

Immediately pour activated product on the surface and, using a squeegee, pull out the material at the desired coverage rate. Material can also be applied with non-shedding roller brush or by airless machine. Apply to achieve a DFT of around 300-500 microns on vertical applications and no more than 3mm in one application on horizontal surfaces. Allow to cure at ambient temperature.

DISCLAIMER

The information provided herein, especially recommendations for the usage and the application of our products, is based upon our knowledge and experience. Due to different materials and equipment used, as well as varying working conditions and environments beyond our control we strictly recommend carrying out intensive trials to test the suitability of our products regarding the required processes and applications. This data sheet is provided free of charge, and we do not accept any liability regarding the above information or regarding any verbal recommendation, except for cases where we are liable of gross negligence or false intention.

