

GEOCEN

EVOLUTION AND MAXIMUM RELIABILITY IN
WATERPROOFING SYSTEMS

MEGAFLEX®
THE WATERPROOF BARRIER

HIGH-IMPACT POLYESTER-CORE ASPHALT
MEMBRANE

UNEXPOSED / HIGH RESISTANCE
UNDERSLAB OR BETWEEN-WALL USE



Features

Megaflex Plastic Cement Membrane, with a polyester central core, which improves the product mechanical properties, providing greater resistance to membrane punching strains and possible tear and shear. GEOCEN has a synthetic polymer high density polyethylene surface coating on both sides, which acts as an anti-adherent foil. Because of its features, GEOCEN provides greater reliability against possible tears or punctures, whether caused by the installation process itself or not.

Where

Suitable for waterproofing membrane surfaces not exposed to weather and requiring great resistance to punching and tear and shear. NO CRACK Power Stick Color is incorporated into a fuller system, beneath another element. A system like this increases the product reliability and resistance, and extends its lifespan. Examples of application include:

Floors and terraces where waterproofing involves an undercourse membrane. Underslab systems or surfaces with other types of coating. Double-membrane waterproofing. Also, foundations, basements, and retaining walls.

Advantages

- Specific for underslab waterproofing systems.
- Increased protection against likely damages produced during installation.
- Increased resistance to punching.
- Excellent bonding to cement mortar (before applying a cement mortar, melt the anti-adherent polyethylene using a membrane-specific torch)



How Supplied

10-m² rolls (1-m wide by 10-m long).

GEOCEN membranes are supplied as:

- GEOCEN 3mm: High-Impact, 34-Kg Standard Membrane.
- GEOCEN 4mm: High-Impact, 45-Kg Standard Membrane.

Images are only illustrative

Recommendations and Precautions

Store the rolls indoors, protected from rain and sunshine, at 5-35°C (41-95°F). Keep stored until use.

Stow the rolls into a pyramid not higher than five rows. Let the products rest at the installation site for at least 2 hours before installation, for them to attain the desired temperature and humidity balance.

At room temperatures near 5°C (41°F), special care should be

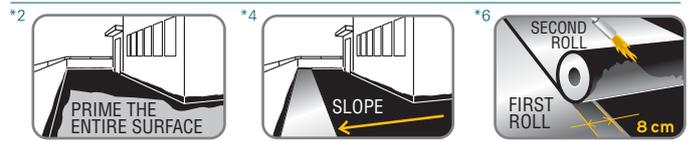
taken when unrolling the product. Unroll slowly and gently so as to avoid scratches, cracks or other damages.
Installation of the membrane is not recommended when room temperature is below 5°C (41°F).
Do not work under rainy conditions nor resume installation until the surface is completely dry.
Keep carbon dioxide or dry chemical extinguishers at hand in the application site to put off any liable fire foci during installation.

Installation (IRAM Guideline #12627)

To ensure proper waterproofing, it is essential to follow these installation instructions:

- 1) **SURFACE PREPARATION:** The application surface must be dry, clean, firm, smooth, and with a proper slope, and it should have the necessary drains to evacuate water.
- 2) **PRIMING:** Before installing the membrane, prime the surface in order to improve the membrane bonding to the substrate. For that purpose, use solvent-based MEGAFLEX ASPHALT PRIMER, aqueous-base MEGAFLEX ASPHALT EMULSION, or hot-applied OXIDIZED ASPHALT IN BLOCKS, depending on the characteristics of the work. Prime the whole surface area evenly, going over protruding elements (chimneys, ventilation elements, etc.), drains and flash sheets. Wait until the primer is completely dry and check that the surface is perfectly clean before installing the membrane
- 3) **INSTALLATION:** Successively place the rolls on one another, from the bottom to the top of the surface (starting from the drains, if possible), perpendicularly to the slope. Start by provisionally laying down the roll, i.e. extending it completely over the roofing in order to verify its position on the affected area, and rewind it back so as to begin fixing it down.
- 4) **ADHESION:** Heat the anti-adherent side of the welding membrane with a torch, completely melting the anti-adherent layer and superfi-

- 5) **LAP JOINTS:** Place the following sheets overlapping on one another, in an ascending fashion, i.e., following the slope direction, and making sure the lap joint is at least 8 cm (3.2") longitudinally. At the rolls ends, the overlap should be 15 cm (6"). Megaflex membranes have a welding strip to facilitate lap joints.
- 6) **FLASHING:** Finally, install the flashing on the perimeter walls. Use a double membrane layer for joints between floor and wall so as to yield a rounded surface finishing.
- 7) **FINISH:** This membrane being unsuitable for weather-exposed use, a surface finish should be applied, which results in a whole membrane system, in which the membrane lays below the other system element. After applying the finish, torch-melt the the anti-adherent polyethylene to improve its bond to the underlying mortar.



Follow the instructions in this sheet and in Megaflex Technical Manual for a correct application. If you need further advice, contact Megaflex Technical Department. TEL: 4002-5000 (rollover lines)//tecnico@megaflex.com.ar// www.megaflex.com.ar

Note: A watertightness test is recommended so as to verify the waterproofing. For that purpose, cover the drains and flood the roofing up to the top of the flash sheet. Control and keep checking this process permanently for 24-48 h.

Other Products

For a proper application, also use a primer and a surface finishing product. It is ideal for waterproofing flat or irregular surfaces, such as corrugated metal roofs, precast concrete, cement screed, etc.

PRIMER

When choosing a primer, bear in mind the surface type and features.



ASPHALT PRIMER

Cement substrate
Cement substrate

ASPHALT EMULSION

Cement substrate
Metal substrate

OXIDIZED ASPHALT

Polyurethane/Polystyrene
Metal substrate
To be used over high density expanded polystyrene

FINISH:

Geocen membrane is used underslab or as part of a system. It should therefore be used as an unexposed waterproofer. The surface finish is done by using a different product.

Technical Features

PROPERTIES	GEOCEN
Roll Length	10 m
Roll Width	1 m
Welding Strip	-
Nominal Thickness (mm) *	3 mm/4 mm
Nominal Weight (kg) *	34/45
Coating	High Density Polyethylene
Core	Polyester
Anti-Adherent Film	High Density Polyethylene

*Depending on the product pack size and type.

Composition

Anti-Adherent Film
Asphalt Layer
Polyester Core
Asphalt Layer
Anti-Adherent Film

