

Enviro Mastic

Flexible Modified Cement-based Tile Adhesive

DESCRIPTION

Enviro Mastic is a non-slump, cement-based flexible tile adhesive for internal and external use. It is built for large-format tiles and is suited to a wide range of wall and floor tiles, including ceramic, fully vitrified, porcelain, natural stone, terrazzo, glass, and mosaics.

Enviro Mastic is designed to accommodate the shrinkage movement typical of early-age concrete and screeds and is suitable for use over compatible waterproofing membranes.

CLASSIFICATION

Classification C2SITE

AREAS OF USE

SURFACES: Concrete, renders, screeds, compatible waterproofing membranes, blockwork, gyprock, plasterboard, and fibre cement sheeting.

AREAS: Internal and external areas.

FEATURES & BENEFITS

- High-performance, S1-rated flexible adhesive.
- Non-slump — holds its position on vertical surfaces.
- Extended open time for easier tile placement
- Low VOC content, meeting Green Building Council of Australia Green Star IEQ-13 requirements.

PRODUCT INFORMATION

Packaging	20kg Bag
Colour	White or Grey
Mixing Ratio	20kg Bag : approximately 5L clean water
Shelf Life	12 months if stored as per storage recommendations
Storage Conditions	Enviro Mastic must be stored in a cool, dry environment
Compatible Primers	Enviro Prime WB Enviro Prime GT1
Compatible Membranes	Enviro 200P Ultra Enviro 500 EXT Enviro Hydrostatic 1 Enviro 700X (sand seeded to refusal)
Compatible Accessories	Compatible with most cementitious-colour tile grouts,

colour epoxy tile grouts, and decorative non-sanded cementitious tile grouts

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Pot Life	AS4992 ISO13007.1	3 hours at 23°C
Open Time	AS4992 ISO13007.1	45 minutes at 23°C
Thickness of Mixed Product	AS4992 ISO13007.1	Stiff mixture will stand up on trowel
Application Substrate Temperature Range	AS4992 ISO13007.1	5°C to 35°C
Compressive Strength	AS4992 ISO13007.1	30MPa
Tensile Strength	AS4992 ISO13007.1	1.92MPa
Tensile Strength after Heat Aging	AS4992 ISO13007.1	1.5MPa
Tensile Strength after Water Immersion	AS4992 ISO13007.1	1.4MPa
Sag	AS4992 ISO13007.1	0.09mm
Flexural Deformation	AS4992 ISO13007.1	2.9mm
Specific Gravity	AS4992 ISO13007.1	1.4 kg/L
Water Absorption	AS4992 ISO13007.1	3.2 g/kg
pH of Mixed Product	AS4992 ISO13007.1	Over 11.5
Adjustability Time	AS4992 ISO13007.1	45 minutes at 23°C
Ready to Grout on Walls	AS4992 ISO13007.1	8 hours at 23°C
Ready to Grout on Floors	AS4992 ISO13007.1	24 hours at 23°C
Time for Foot Traffic Over Porous Substrate	AS4992 ISO13007.1	24 hours at 23°C
Environment Temperature Range after Cured	AS4992 ISO13007.1	-40°C to 125°C

COVERAGE RATE

Application	Coverage	Trowel Size	Approx. Consumption
Walls	12 m ²	6mm notched	1.25 kg/m ²
Floors	7 m ²	10mm notched	2.1 kg/m ²



ADHESIVES

Enviro Mastic

Flexible Modified Cement-based Tile Adhesive



Coverage will vary depending on substrate condition, tile type, and application technique.

SUBSTRATE PREPARATION

General

Make sure surfaces are sound, stable, and free of movement, oil, grease, wax, dust, curing agents, release agents, and any other barrier materials. The substrate must be strong enough to carry the weight of the tiles being fixed, and dry — no residue and no rising or permanent damp. Prime all surfaces before tiling: use Enviro Prime WB on porous and semi-porous substrates, or Enviro Prime GT1 on non-porous substrates.

Concrete & Cement Render

Allow concrete slabs to be cured for at least 7 days in accordance with AS 3958.1-2007, with a wood-float finish. Surface flatness must not vary by more than 5mm over 3m for floors, or 4mm over 2m for walls. Steel-trowelled concrete must be mechanically abraded or primed first with a suitable non-porous bonding primer. Allow render surfaces to cure for at least 24 hours before tiling.

Existing Tiles

Existing tiles must be sound and clean. Remove any cracked, drummy, or otherwise unsound tiles and repair the substrate before continuing. Prime with a suitable non-porous bonding primer.

Plasterboard & Fibre Cement Sheet – Wall/Floor

Plasterboard and fibre cement sheeting must be the correct grade for the application and installed in accordance with the manufacturer's written specifications. Prime with a suitable porous-surface primer before tiling.

MIXING

Mix each 20kg bag of Enviro Mastic with approximately 5L of clean water. Add the powder to the water, not the other way round. Mix with a paddle mixer, allow the mix to stand for 3 minutes, then re-mix briefly. The adhesive is then ready to use.

APPLICATION

Fixing Tiles

Fix tiles in accordance with AS 3958.1-2007. Apply the adhesive with a square-notched trowel: use a 10mm notch for tiles under 300mm x 300mm, and a 12mm notch for tiles over 400mm x 400mm, back-buttering each tile

as you go. Spread adhesive at a rate of around 1m² at a time and press tiles firmly into place while the adhesive is still tacky before it skins over. Do not spot-fix and remove all excess adhesive as you go.

Grouting

Begin grouting once the adhesive has hardened enough that tiles will not be dislodged. Mix and apply a suitable proprietary tile grout in accordance with the grout manufacturer's instructions.

EXPANSION JOINTS

Install movement joints in accordance with AS 3958.1-2007. Joints must run from the substrate, through the full tile bed, to the face of the tile, and must be kept clear of dirt, adhesive droppings, and tile spacers. Make joints 6mm – 10mm wide and fill with a suitable elastomeric sealant.

Position movement joints:

- Every 4.5m externally, and every 6m internally
- Around the perimeter of the floor, and over existing joints in the substrate
- Wherever two different materials meet (e.g., timber and concrete)
- Around fixtures in the substrate (e.g., columns)
- At internal vertical corners, and where the direction of tiling or storey height changes
- Over existing movement joints

CLEANING

Remove excess adhesive with a clean, damp cloth while it is still wet. Clean tools and equipment with water before the adhesive sets.

LIMITATIONS

Precautions

Do not apply Enviro Mastic in temperatures below 5°C or above 35°C. Open time is 45 minutes at 23°C, with a 45-minute adjustment window. Hot, dry, or windy site conditions will shorten these times, so only spread as much adhesive as can be tiled while it remains wet.

Enviro Mastic is not recommended for external tiling above 2.7m and should not be used to fix new tiles over existing tiles in permanently immersed situations such as swimming pools or spas.

Do not use Enviro Mastic with moisture-sensitive tiles or natural stone. For applications not covered in this data sheet, check with your technical team before proceeding.

Enviro Mastic is cement-based, alkaline and may cause skin irritation. Applicators should wear PVC or similar gloves and safety goggles.



Enviro Mastic

Flexible Modified Cement-based Tile Adhesive



HEALTH & SAFETY ADVICE

Refer to the Safety Data Sheet for full safety and handling procedures.

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to accuracy, reliability, or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

NOTE: Field service where provided does not constitute supervisory responsibility. Suggestions made by EnviroSystems, either verbally or in writing may be followed, modified, or rejected by the owner, engineer, or contractor since they, and not EnviroSystems, are responsible for carrying out procedures appropriate to a specific project.

NOTE: All products manufactured by EnviroSystems comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

CONTACT ENVIROSYSTEMS

General Enquiries

info@envirosystems.com.au | 1300 WATERPROOF (1300 928 377)

New South Wales – Head Office

Ground Floor, 295 Princes Hwy, St Peters NSW 2044 |
nswsales@envirosystems.com.au

Queensland

Unit 3, 28 Burnside Rd, Yatala QLD 4207 | qldsales@envirosystems.com.au

Victoria

49 Wood St, Thomastown VIC 3074 | vicsales@envirosystems.com.au

Western Australia

78 Discovery Dr, Bibra Lake WA 6163 | wasales@envirosystems.com.au

