SUSTAINABLE

systems





SUSTAINABILITY

Mapei approach

Mapei has an eye on the future when creating products and offers innovative solutions for designing and constructing in an eco-sustainable way. This is a commitment that requires a sense of responsibility and the ability to make concrete choices in order to supply designers, contractors, workers and clients with solutions that are safe, reliable and long-lasting and that have the lowest impact possible on the environment.

Founded more than eighty years ago in Milan, Italy, Mapei has since been proposing solutions of excellence for chemical products for the building sector all around the world. Its products are used in both the construction of large-scale infrastructures and iconic works of architecture, as well as in the residential sector. A target achieved without ever forgetting that it is only a constant, open and transparent dialogue with our

contacts and clients that enables us to truly understand the real needs of the market and to provide innovative and sustainable responses.

Mapei pursues a concept of sustainability that encompasses a host of aspects in terms of living comfort and wellbeing. It firmly believes that the profits of a company should go hand in hand with ethics, respect for people and the creation of value for the territory.

It has always applied these principles to its strategy. And with this document, once again, the company wishes to underline this approach because, at times, simply doing something is not enough; you also need to share values and expectations. There are three cornerstones to sustainability according to Mapei: the planet, projects and people.



sustainable SCLUTIONS

The Mapei Sustainable Systems are made with the most durable products that have VOC content and VOC emissions certification, EPDs as well other Mapei sustainable technologies. These initiatives can contribute to sustainable project certification such as Green Star by GBCA, Living Building Challenge (LBC), LEED by USGBC and BREEAM.







SYSTEM FOR THE INSTALLATION OF **TILES OVER CONCRETE**





1



Keraquick Maxi S1, Keraflex Maxi S1, or Ultralite S1 Flex







SYSTEM FOR THE **INSTALLATION OF**TILES IN WET AREAS











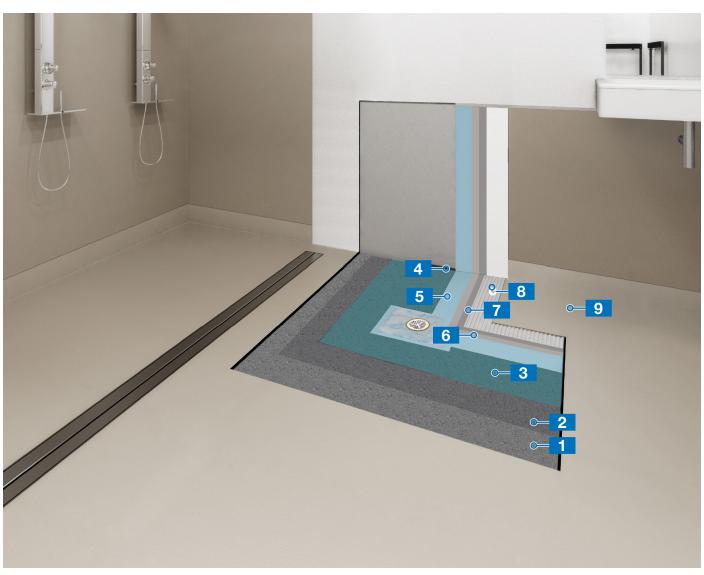








SYSTEM FOR THE INSTALLATION OF **VINYL SHEET IN INTERNAL WET AREAS**













Mapelastic AquaDefense











Ultrabond Eco V4 Evolution for walls





SYSTEM FOR THE INSTALLATION OF VINYL FLOOR **COVERINGS OVER CONCRETE**







Ultraplan, Ultraplan Eco or Ultraplan Maxi



properly prepared concrete substrate

2

3

5



Volatile Organic Compound (VOC) Testing

VOCs are chemicals that are emitted as gases from products such as adhesives, sealants and other chemical products for buildings. Mapei has developed solvent-free products with low content and emission of VOCs with the ability to guarantee good air quality inside the buildings where they are used, for the well-being of both those who use and apply the products and those who use the buildings.

The products used in Mapei's Sustainable Solutions contribute towards several credits in a number of Green Star rating tools, thanks to their very low content and emission of VOC. The VOC content of the Mapei products can be found in their Safety Data Sheet (SDS). Mapei products can be tested under different VOC emission test protocols and may have one or more VOC emission test certificates.







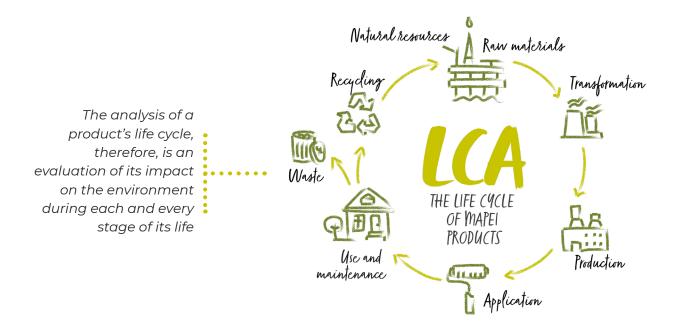






Environmental Product Declaration (EPD)

Mapei calculates the impacts its products have on the environment using the standardised LCA (Life Cycle Assessment) method, resulting in the issuing of an Environmental Product Declaration (EPD).



EPDs are used to document the **effects a product has on the environment** throughout its entire life cycle and **Mapei** is in possession of this type of certification for many of its solutions. The impacts on the environment taken into consideration are numerous: from global warming to the depletion of our planet's natural resources to the influence they have on the ecosystem. For **Mapei** it is important to minimise any negative effects

its products have on the environment in order to make them more and more sustainable: and to achieve this scientifically it always measures their impact according to international standards. In the construction sector, EPDs are a fundamental element and help clients choose products with a low impact on the environment in order to meet the requirements of organisations and certification protocols for sustainable building.





Products with ZERO impact on climate change

Mapei promotes the **total offsetting of CO₂ emissions** during the life cycle of products by purchasing certified environmental credits to promote the implementation of **renewable energy** projects.

In Australia from 2022, Mapei Ultracolor Plus will be the **first ceramic grout** to become **completely carbon neutral**.

The Mapei Group's commitment to **combat climate change** has led the company to seek solutions with the lowest greenhouse gas emissions, such as Mapei's R&D departments constantly refining product formulas. Understanding that the journey to a sustainable future does not end here, Mapei has already taken steps towards **'zero' impact on climate change** by promoting the

total offsetting of CO₂ emissions during the life cycle of products by purchasing **certified environmental credits** to support the implementation of renewable energy projects.

The total CO₂ emissions generated (Measured in accordance with EN 15804) by the global production of **Mapei Ultracolor Plus** is being **completely offset**. Mapei customers can now confidently use Ultracolor Plus without concerns about its impact towards climate change.

This initiative is yet another showcase of Mapei's **commitment** to producing products with the lowest environmental impact and the group's **contribution to the UN Sustainable Development Goals (SDG)**.







To meet the new needs of the ceramic sector, Mapei has studied the **Ultralite range, deformable** adhesives, characteristics that make them the ideal choice for laying large format tiles. The special formulation created by the Mapei Research and Development Laboratories, with the addition of **glass microspheres** or **inert materials** of natural origin, gives the mix greater volume and a

unique consistency. In addition to making them lighter and easier to trowel, this allows you to lay up to 80% larger surfaces with the same quantity of products compared to traditional adhesives of the same class.

Ultralite adhesives are formulated with the well-being of users and the environment in mind.



The quality of grouts is essential for the cleanability and maintenance of surfaces. Mapei grouts with **DropEffect® technology** absorb less dirt and are **easy to clean** and their **colour remains stable** over the years. In fact, thanks to this special technology, they are less absorbent to liquids and are **water-repellent**. Liquids deposited on the surface are not absorbed but remain on the surface in the form of droplets, so joints are much easier to clean before stains are formed.

The proliferation of bacteria on the surface of grouts, especially in damp environments

such as bathrooms and saunas, may lead to the formation of moulds and fungi. In addition to causing an unsightly finish, these can be harmful for the health of final users. This is why the Mapei Research and Development has developed BioBlock® technology: molecules of special organic material distributed throughout the microstructures of the grout that impede the formation and proliferation of the microorganisms that cause mould. And in so doing, tiled surfaces are healthier and more hygienic and maintain their appearance and finish over the years.





Product **Sustainability Solution** Chart

PRODUCT	VOC CONTENT (G/L)	EMISSIONS	THE INTERNATIONAL INFO STATES				
	00/L	700	EPD				
PRIMERS / MOISTU	RE VAPOU	IR BARRIERS					
Primer MF	29.9	CDPH	✓				
Mapeproof Primer	0	GEV EC1 Plus	✓				
Eco Prim Grip	0	GEV EC1 Plus	✓				
Primer G	0	GEV EC1 Plus	✓				
Eco Prim T Plus	19.6	GEV EC1 Plus	✓				
SCREEDS							
Topcem Pronto	0	GEV EC1 Plus	✓				
SELF-LEVELLING CO	OMPOUNE	S					
Ultraplan	0	GEV EC1 Plus	\checkmark				
Ultraplan Eco	0	GEV EC1 Plus	✓				
Ultraplan Maxi	0	GEV EC1 Plus	✓				
SMOOTHING COMP	OUNDS						
Planiprep SC	0	CDPH	✓				
WATERPROOFING	С МЕМВР	RANES					
Mapegum WPS	5.1	GEV EC1 Plus	✓	Block	Drop Effect	Ultra(ite	COST AULUSTEE ZIPRO
Mapelastic AquaDefense	54	CDPH	\checkmark				
ADHESIVES						=	7
Keraflex Maxi S1	5.4	GEV EC1 Plus	✓	BIO BLOCK	DROP EFFECT	ULTRALITE TECHNOLOGY	CARBON NEUTRAL
Keraquick Maxi S1	0	EC1 Plus	✓				
Ultrabond Eco 380	17	CDPH	✓				
Ultrabond Eco V4 Evolution	0	EC1 Plus	✓				
Ultrabond Eco VS90 Plus	0	EC1 Plus	✓				
Ultralite S1 Flex	3	EC1 Plus	√ *			✓	
SILICONE							
Mapesil AC	25.8	EC1 Plus	✓	✓			
Mapesil LM	50.6	EC1 Plus	✓	✓			
GROUT							
Ultracolor Plus	0	EC1 Plus	✓	✓	✓		✓

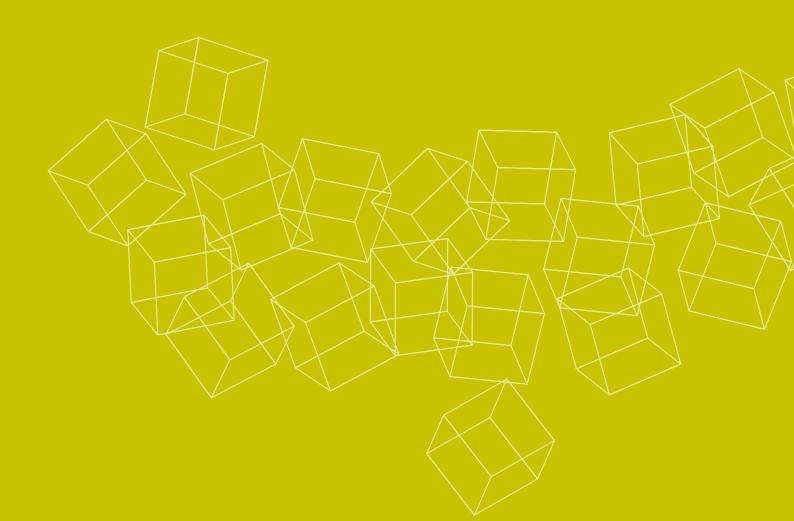
^{*}EPD focused on European production. Values on this EPD can be used as an estimation for Australian Production.

TECHNICAL SUPPORT

Mapei Australia has a Technical Services department dedicated to providing assistance with Mapei products and systems including understanding sustainability certification and obtaining credits under different sustainability rating tools.

Are you working on a sustainable project?

Contact the *Mapei Australia Technical Services team* to discuss your options of Mapei sustainable solutions today!





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