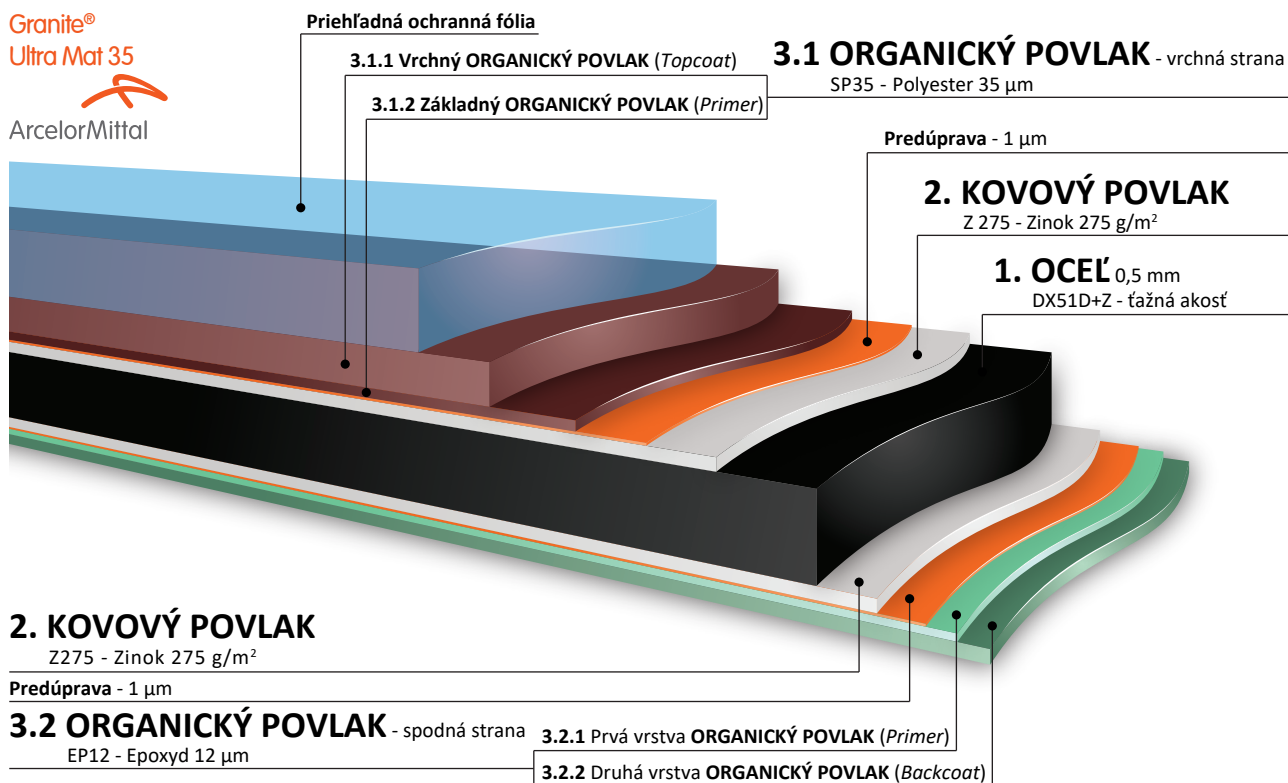


Ochranné povlaky oceľového plechu SP35/ArM M(š)

Metrotile®
strešné krytiny



Výrobca: ArcelorMittal

Obchodné označenie: Granite® Ultra Mat 35 microns

Označenie podľa EN 10169+A1: SP

Záruka na lak: 10 rokov

Záruka na prehrdzavenie: 30 rokov

Odhadovaná životnosť: 35 - 40 rokov

1. OCEĽ 0,5 mm, DX51D+Z - ľahná akosť
podľa: EN 10346 a EN 508-1, *Steel (angl.)*

- oceľový plech žiarovo pozinkovaný: DX51D+Z
- štandardná hrúbka: 0,5 mm
- ťažnosť: A₈₀ 22 %
- recyklovateľný materiál

2. KOVOVÝ POVLAK Z275 - Zinok 275 g/m²
podľa: EN 10346 a EN 508-1, *Metal coating (angl.)*

- prvá ochranná vrstva kovovým povlakom typu: "Z"
- hmotnosť vrstvy: 275 g/m² spolu na oboch stranách

Predúprava
Pre-treatment (*angl.*)

Rozhodujúcou operáciou v technologickom postupe pre kvalitu ochranných vrstiev je chemická predúprava a očistenie kovového povlaku pre zabezpečenie prínavosti následného organického povlaku.

3.1 ORGANICKÝ POVLAK SP35 - Polyester 35 µm, vrchná strana
podľa: EN 10169+A1 a EN 508-1, *Organic coating (angl.)*

Kľúčové vlastnosti:

- odolnosť voči UV žiareniu: RUV4
- odolnosť voči poškrabaniu v "kg": ≥ 2
- korózna odolnosť: RC4
- polomer ohybu: ≤ 2 T

Ostatné vlastnosti:

- lesk: matný (M) 5°
- štruktúra povrchu: štruktúrovaná (š)

3.1.1 Vrchný ORGANICKÝ POVLAK, Topcoat (angl.)

- hrúbka: 25 µm
- obchodné označenie: Granite® Ultra Mat 35 microns
- druh: polyester
- označenie podľa EN 10169+A1: SP

3.1.2 Základný ORGANICKÝ POVLAK, Primer (angl.)

- hrúbka: 10 µm

3.2 ORGANICKÝ POVLAK EP12 - Epoxyd 12 µm, spodná strana
podľa: EN 10169+A1 a EN 508-1, *Organic coating (angl.)*

3.2.1 Prvá vrstva ORGANICKÝ POVLAK, Primer (angl.)

3.2.2 Druhá vrstva ORGANICKÝ POVLAK, Backcoat (angl.)

Ochranná značka: bez označenia

Priehľadná ochranná fólia

- aplikuje: Metrotile CE, s.r.o Slovensko
- aplikuje sa len na vrchnú stranu ako dočasná ochrana
- pri zabudovaní výrobku fóliu odstrániť!

Granite® Ultramat

Safe for 20 years and more

Granite® Ultramat is the latest addition to ArcelorMittal's Granite® range of pre-painted steels for outdoor building applications. Designed specifically for roofing, Granite® Ultramat offers advantages over standard Granite® Deep Mat and competing products due to the high quality and flexible paint system used.

Guarantees of up to 20 years on non-perforation, and up to 15 years for non-delamination, are possible. Granite® Ultramat's aesthetic properties are expected to be guaranteed for up to 10 years.

The new long-lasting, pre-painted steel with more:

- Flexibility at low temperatures
- Surface robustness
- Resistance to cold storage conditions
- Colour stability
- Sustainability

Flexible at low temperature

Granite® Ultramat withstands cold storage during winter while keeping its flexibility.

Profiling in cold conditions has been drastically improved: T-bend without cracking is guaranteed at 0°C.

Tests were conducted in a laboratory and confirmed by industrial testing during winter. The tests were performed on roofing tile panels with a severe radius.

After storage at -15°C for 60 days, Granite® Ultramat's resistance to cracking on bending (T-bend) is guaranteed at $\leq 2T$, surpassing the performance of existing generic mate products on the market.



Surface robustness

Due to its robust surface, the scratch and fretting performance of Granite® Ultramat has been drastically improved. This ensures defects during transport and handling are avoided. The Clemen value is guaranteed at $\geq 2\text{kg}$.

A severe fretting test was developed by ArcelorMittal. Two samples are pressed together and subjected to a small cyclic displacement. The test simulates the repetitive friction that occurs between painted surfaces during the transportation and handling of finished products such as roofing tile panels.

Results speak by themselves – the surface remains intact.



Granite® Ultramat



Competition sample

Aesthetics

Granite® Ultramat is characterised by a large grain. The coating is rough and tactile, which translates into a good, homogenous, visual aspect.

The versatility of the Granite® Ultramat surface allows several production processes to be performed while maintaining the initial aesthetic aspect of the pre-painted steel.



free of chromates
Inspired by Nature
and heavy metals

Sustainable

As part of ArcelorMittal's Nature range, Granite® Ultramat does not contain any harmful substances and is fully compliant with Europe's REACH regulations.

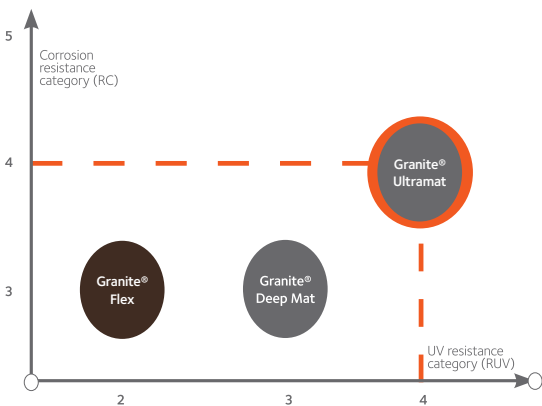
At the end of its lifecycle, Granite® Ultramat is 100% recyclable, just like all other steel products. Thanks to our long experience with life cycle assessment (LCA), ArcelorMittal can support customers who want to integrate product sustainability documentation (such as the existing environmental product declaration (EPD) for our Granite® products) into specific project documentation.

[link to online version](#)

Automatic guarantees

Granite® Ultramat comes with automatic guarantees against perforation and non-delamination of the paint. These guarantees are possible due to the rigorous accelerated laboratory tests we have conducted. These results have been confirmed in extensive outdoor tests conducted by independent assessors and laboratories.

Granite® Ultramat outperforms classic roofing products



Sample webshop
Link to order samples



industry.arcelormittal.com/samplewebshop



Technical features

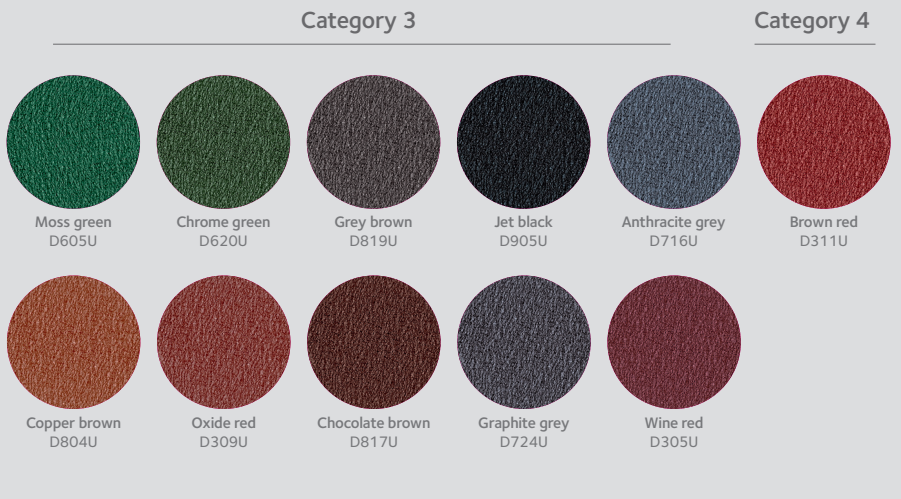
Organic coating thickness	35 µm* organic coating applied on a Z225 or Z275 zinc flat carbon steel substrate.
Dimensions	Thickness range: 0.35 to 2 mm Width range: 800 to 1500 mm
Corrosion/UV resistance category	RC4/RUV4
Resistance to cracking (T-bend) at 0°C -10°C- 20°C	≤ 2T
Resistance to cracking (T-bend) after 60 days at -15°C	≤ 2T
Clemen scratch resistance	≥ 2 kg
Gloss	≤ 5 GU
Guarantee on non-perforation and non-delamination	Up to 20 years
Guarantee on aesthetic properties	Up to 10 years

**For properties and performance of 40 µm coating, please contact us.*

Colour palette

Granite® Ultramat is available in 11 colours. Its wrinkled finish provides improved scratch resistance.

We recommend using the same production batch to ensure consistent ageing of the entire roof.



Any questions?
Ask them via our contact form on industry.arcelormittal.com/getintouch

Credits
Images: ArcelorMittal

Copyright
All rights reserved for all countries. This publication shall not be reproduced, in whole or in part, in any form or by any means whatsoever, without prior express written consent from ArcelorMittal. Care has been taken to ensure that the information in this publication is accurate, but this information is not contractually binding. ArcelorMittal and any other ArcelorMittal Group company do not therefore accept any liability for errors or omissions or any information that is found to be misleading. As this document may be subject to change at any time, please consult the latest information in the product document centre at industry.arcelormittal.com

ArcelorMittal Europe – Flat Products
24-26, boulevard d'Avranches
L-1160 Luxembourg
industry.arcelormittal.com