Astro Ultracolor Plus – FICHA TÉCNICA (página 1/2)

TECHNICAL DATA (typical values)

In compliance with the following standards:
– AS ISO 13007-3 as CG2WAF
– European EN 13888-1 as CG2FWA

PRODUCT IDENTITY

Consistency:	fine powder
Colour:	40 colours from the MAPEI coloured grouts range.
Bulk density:	1400 kg/m³
Dry solids content:	100%
EMICODE:	EC1 Plus – very low emission

APPLICATION DATA (at +23°C and 50% R.H.)

Mixing ratio:	100 parts **Ultracolor Plus** with 20-26 parts water, depending on the colour
Consistency of mix:	fluid paste
Density of mix:	1980 kg/m³
pH of mix:	approx. 11
Pot life of mix:	20-30 minutes
Application temperature:	from +5°C to +35°C
Waiting time before grouting:	
– on walls bonded with normal adhesive:	4–8 hours
– on walls bonded with fast-setting adhesive:	1–2 hours
– on walls with mortar:	2–3 days
– on floors bonded with normal adhesive:	24 hours
– on floors bonded with fast-setting adhesive:	3–4 hours
– on floors with mortar:	7–10 days
Waiting time before finishing:	15-30 minutes
Set to light foot traffic:	approx. 3 hours
Ready for use:	24 hours (48 hours for water immersion)

FINAL PERFORMANCE

Flexural strength after 28 days:	9 N/mm²
Compressive strength after 28 days:	35 N/mm²
Flexural strength after freeze/thaw cycles:	9 N/mm²
Compressive strength after freeze/thaw cycles:	35 N/mm²
Resistance to abrasion:	700 (loss in mm³)
Shrinkage:	1.5 mm/m
Water absorption (EN 12808-5) after 30 minutes:	0.1 g
Water absorption (EN 12808-5) after 4 hours:	0.2 g
Resistance to solvents and oils:	excellent
Resistant to alkalis:	excellent
Resistance to acids:	good resistance to acids with pH > 3

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Consumption according to the size of the tiles and the width of the joints (kg/m²)

Tile size (mm)	Joint width (mm)				
	2	3	5	8	10
75x150x6	0.4	0.6	1.0	1.5	1.9
100x100x7	0.4	0.7	1.1	1.8	2.2
100x100x9	0.6	0.9	1.4	2.3	2.9
150x150x6	0.3	0.4	0.6	1.0	1.3
200x200x7	0.2	0.3	0.6	0.9	1.1
200x200x9	0.3	0.4	0.7	1.2	1.4
300x300x10	0.2	0.3	0.5	0.9	1.1
300x300x20	0.4	0.6	1.1	1.7	2.1
300x600x10	0.2	0.2	0.4	0.6	0.8
400x400x10	0.2	0.2	0.4	0.6	0.8
500x500x10	0.1	0.2	0.3	0.5	0.6
600x600x10	0.1	0.2	0.3	0.4	0.5
750x750x10	0.1	0.1	0.2	0.3	0.4
100x600x9	0.3	0.5	0.8	1.3	1.7
150x600x9	0.2	0.4	0.6	1.0	1.2
150x900x9	0.2	0.3	0.6	0.9	1.1
150x1200x10	0.2	0.4	0.6	1.0	1.2
225x450x9	0.2	0.3	0.5	0.8	1.0
225x900x9	0.2	0.2	0.4	0.6	0.8
250x900x9	0.1	0.2	0.4	0.6	0.7
250x1200x10	0.2	0.2	0.4	0.6	0.8
600x600x5	0.1	0.1	0.1	0.2	0.3
600x600x3			0.1	0.1	0.2
1000x500x5		0.1	0.1	0.2	0.2
1000x500x3			0.1	0.1	0.1
1000x1000x5			0.1	0.1	0.2
1000x1000x3				0.1	0.1
3000x1000x5			0.1	0.1	0.1
3000x1000x3				0.1	0.1

FORMULA APPLIED TO CALCULATE CONSUMPTION RATE:

$$\frac{(A + B)}{(A \times B)} \times C \times D \times 1.6 = \frac{kg}{m^2}$$

A = tile length (mm)
B = tile width (mm)
C = tile thickness (mm)
D = joint width (mm)