Interior Solid Surface Material







The Concrete Collection is a range embodying the rough texture of raw concrete with a pattern design which calmly and delicately permeates the artificial stone.

The HI-MACS® Concrete Collection came from an initial desire to discard existing ideas, and go back to the bare essentials.

The Concrete Collection challenges modern extravagance, and returns to an industrial era where basic colours provide a clean canvas to build on.

The Concrete Collection fulfills today's design trends.

1. Products

1.1 Available Colours



Urban Concrete G554 [20/12/9/ 6 mm]



Steel Concrete G555 [12/9/6 mm]



Chic Concrete M551 [12 mm]



Shadow Concrete M552 [12 mm]



Ebony Concrete M553 [12 mm]



2. Product Specifications

2.1 Available Products: Product Code - Colour - Size - Weight

GROUP	COLOUR CODE	COLOUR NAME	SHEET THICKNESS	SHEET SIZE (WIDTH X LENGTH)	M² PER SHEET	WEIGHT PER SHEET	WEIGHT PER M²	SHEETS PER PALLET
	G556	Snow Concrete	12 mm	760 mm x 3680 mm	2.7968	55,38 kg	19,80 kg	15
	G557	Cloud Concrete	12 mm	760 mm x 3680 mm	2.7968	55,38 kg	19,80 kg	15
	M551	Chic Concrete	12 mm	760 mm x 3680 mm	2.7968	55,38 kg	19,80 kg	15
Concrete	M552	Shadow Concrete	12 mm	760 mm x 3680 mm	2.7968	55,38 kg	19,80 kg	15
	M553	Ebony Concrete	12 mm	760 mm x 3680 mm	2.7968	55,38 kg	19,80 kg	15
	G554	Urban Concrete	12 mm	760 mm x 3680 mm	2.7968	55,38 kg	19,80 kg	15
	G555	Steel Concrete	12 mm	760 mm x 3680 mm	2.7968	55,38 kg	19,80 kg	15





2.2 Product: Sheet - Adhesive

	SHEET		ADHESIVE			
GROUP	COLOUR CODE	COLOUR NAME	COLOUR CODE	COLOUR NAME	PACKAGING UNIT	
	G556	Snow Concrete	H02	Arctic White	45 ml / 250 ml	
	G557	Cloud Concrete	H132	Cloud	45 ml / 250 ml	
	M551	Chic Concrete	H114	Pantheon	45 ml / 250 ml	
Concrete	M552	Shadow Concrete	H114	Pantheon	45 ml / 250 ml	
	M553	Ebony Concrete	H115	Colosseum	45 ml / 250 ml	
	G554	Urban Concrete	H22	Perna Grey	45 ml / 250 ml	
	G555	Steel Concrete	H114	Pantheon	45 ml / 250 ml	

Note: the adhesive is not developed as a filler for repairs. In the case of damage to the surface it is strongly recommended to make a plug repair if possible (tools are available on the market – please contact your local technical support).

2.3 Product: Sheet - Colour Codes: RAL - NCS - Pantone

GROUP	COLOUR CODE	COLOUR NAME	RAL	NCS	PANTONE
	G556	Snow Concrete	9002		12-0404 TPX
	G557	Cloud Concrete	7044		14-0002 TPX
	M551	Chic Concrete		S 4502-Y	17-1210 TPG
Concrete	M552	Shadow Concrete		S 5502-Y	17-1500 TPG
	M553	Ebony Concrete		S7500-N	18-0403 TPG
	G554	Urban Concrete		S 3502-Y	15-0000 TPG
	G555	Steel Concrete		S 4502-Y	17 0205 TPG

2.4 Product: Sheet - LRV:

GROUP	COLOUR CODE	COLOUR NAME	LRV
	G556	Snow Concrete	
	G557	Cloud Concrete	
	M551	Chic Concrete	25.35
Concrete	M552	Shadow Concrete	18.87
	M553	Ebony Concrete	11.22
	G554	Urban Concrete	31.96
	G555	Steel Concrete	23.26

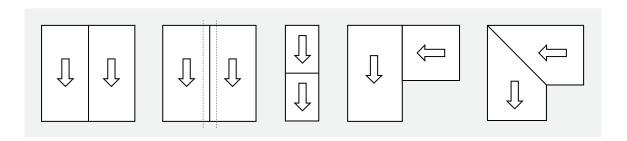




3. Bonding Sheet to Sheet

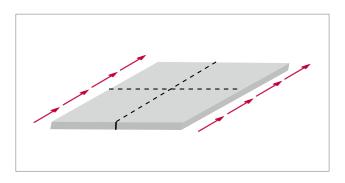
When bonding sheet to sheet double check the best veining possibility according to its veining flowing look. There's no way to determine which method will work best with any particular colour other than to visually evaluate the configurations.

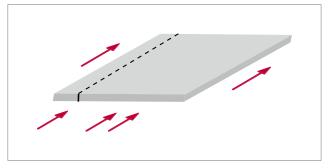
Again, we strongly advise the fabricator to ensure the purchaser and end user understand these considerations before commencing work.

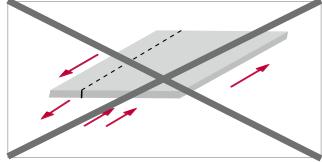


When using several sheets for doing one job ensure a continuous flow of sequential numbers as well as the same production flow.

Do not turn one sheet into a different direction from the next or opposite side ($\underline{\text{no turn}}$ of any sheet by 90°, 180° or 270°).





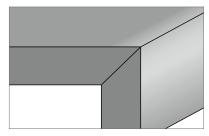


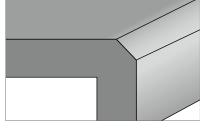


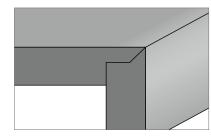


4. Edge bonding flow

To let the pattern flow around the edges a 45° angled cut of the edge or an alternative rebate is one of the best solutions.







Standard v-grooved

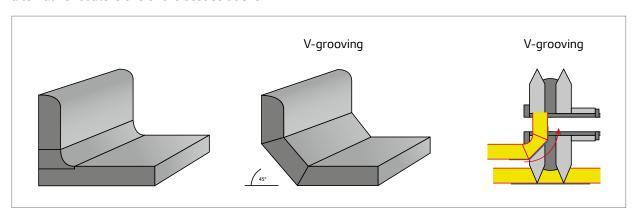
Standard with hevel

Standard V-grooved and angled

For the bonding process of the edges please follow the instructions of edge treatments. Also here: We strongly advise the fabricator to confirm that the purchaser and the end user understand these considerations before proceeding whilst best to prepare a sample and let this design sign off.

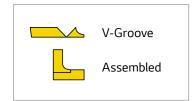
5. Backsplash

To let the pattern flow around the edges a 45° angled cut of the edge or an alternative rebate is one of the best solutions.



When preparing a curved upstand or downturn, customers may not accept the final result. One may not compare, though with UNI colours used in the kitchen market.

A downturn or an upstand are best achieved with a 45° angle or a profiled folding option – see picture 3 (V-grooving).







■ 6. Sanding (finishing)

- The reference is as recommended with our standard products.
- For further details: See TDS-no.4 Sanding.



Standard recommendation

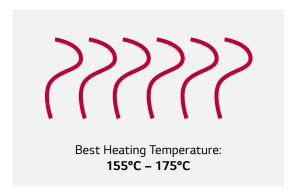
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FINISH-LEVEL MATT-FINISH		SEMI-GLOSS-FINISH		HIGH-GLOSS-FINISH		
HI-MACS® colour family	tor all colours		for all	colours	for all colours	
Sanding steps	micron- sandpaper	grid- sandpaper	micron- sandpaper	grid- sandpaper	micron- sandpaper	grid- sandpaper
Step 1	100/80 μ	150/180 µ	100/80 μ	150/180 µ	100/80 μ	150/180 μ
	take du	st away	take du	st away	take dust away	
Step 2	60 μ	220	60 µ	220	60 μ	220
	take du	st away	take du	st away	take dust away	
Step 3	"useit®" Superpad S/G Scotch Brite™ Maroon 7447	280	40/30 μ	280/320	30 μ	280/320
	take du	st away	take du	st away	take dust away	
Step 4	industrial paper towel	"useit®" Superpad S/G Scotch Brite™ Maroon 7447	"useit [®] " Superpad S/G Scotch Brite™ Maroon 7447	380/400	15 μ	380/400
	take du	st away	take dust away		take dust away	
Step 5		industrial paper towel	industrial paper towel	"useit®" Superpad S/G Scotch Brite™ Maroon 7447	9 µ	600/800
	take dust away		take dust away		take dust away	
Step 6				industrial paper towel	Finesse-it™ Finish- component	1200
	take dust away		take dust away		take dust away	
						1500
Step 7						1800
						2500



7. Thermoforming

To prepare the workpieces, follow the standard thermoforming process

For the Thermoforming process we recommend using a pre-heating oven with double sided heating plates.





The heating time is similar to the general heating time of HI-MACS® products for the thermoforming process. The classification of a minimum radius for CONCRETE is approx. \geq 85mm.

Be aware that any undertaking of recommended radii can cause some colour change or create some cracks. For any technical inquiry contact your local technical support.

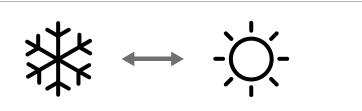
For more detailed thermoforming equipment or any thermoforming accessories please contact global@nabuurs.com or visit the website: www.globalvacuumpresses.com





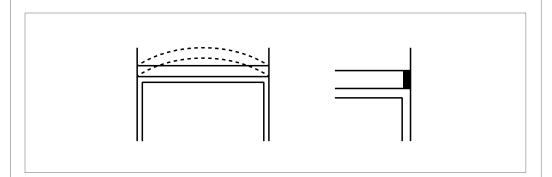


8. Thermal Expansion



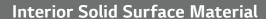
Sufficient space should be given to compensate for expansion or contraction at the time of installation since this product may expand or contract depending on the temperature.

Allow 1.5 mm per linear meter for expansion and contraction.



Expansion coefficient HI-MACS® according to norm DIN EN 14851:

 $\Delta t = ca. 48 \times 10^{-6} / K$





9. Quality Check

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 \square Any mistakes can be repaired in the workshop at the time of fabrication. Repairs needed at a later date will be more costly and time consuming.

■ 10. Summary

Important:

Remember that the 15 Year Limited Installed Warranty does not cover any failures due to fabrication or installation mistakes.



11. Fire Classification

11.1 Fire Classification Report according to DIN 4102-2 / M551 Chic Concrete: "B1"





11.2 Fire Classification Report according to DIN 4102-2 / G554 Urban Concrete: "B1"









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