



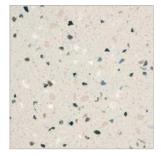


Colours belonging to the Terrazzo collection exhibit a greater variation in colour, shading, and pattern than is apparent in small size samples. Even A4/A3-size samples and full-sheet photographic images can't fully capture these variations. If possible, allow the customer to view the actual material together with seaming layout examples and have the customer sign a "declaration of understanding" to help ensure that the finished countertop is consistent with customer expectations.

When fabricating Terrazzo it's important to use consecutive sheets whenever there will be a field seam or a seam creating a "U"- or "L"-shaped top. Even with consecutive sheets it's important to visually verify alignments before beginning fabrication. Either approach will not only deliver a more pleasing appearance but will minimize the visibility of seams and joints.

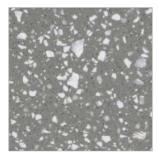
1 Product Specifications

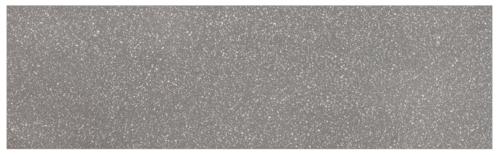
1.1 Available colours





Terrazzo Classico





Q002 Terrazzo Grigio



1.2 Product Specifications

| GROUP | SHEET COLOUR CODE | COLOUR NAME | SHEET THICKNESS | SHEET SIZE (WIDTH X LENGTH) | M² PER SHEET | WEIGHT PER SHEET | SHEETS PER PALLET |
|----------|----------------------|-------------|--------------------|--------------------------------|-----------------|---------------------|----------------------|
| Terrazzo | Q001 | Classico | 12 mm | 760 mm x 3680 mm | 2.7968 | ca. 56,7kg | 20 |
| | Q002 | Grigio | 12 mm | 760 mm x 3680 mm | 2.7968 | ca. 56,7kg | 20 |

1.3 Sheet & Adhesive Colour Codes

| SHEET | | | ADHESIVE | | | |
|----------|-------------|-------------|-------------|-------------|----------------|--|
| GROUP | COLOUR CODE | COLOUR NAME | COLOUR CODE | COLOUR NAME | PACKAGING UNIT | |
| Terrazzo | Q001 | Classico | H32 | lvory | 45 ml / 250 ml | |
| | Q002 | Grigio | H109 | Mud Grey | 45 ml / 250 ml | |

1.4 LRV: Light Reflective Values

| GROUP | SHEET COLOUR CODE | COLOUR NAME | LRV |
|----------|----------------------|-------------|-------|
| Torrazzo | Q001 | Classico | 58.29 |
| Terrazzo | Q002 | Grigio | 26.24 |



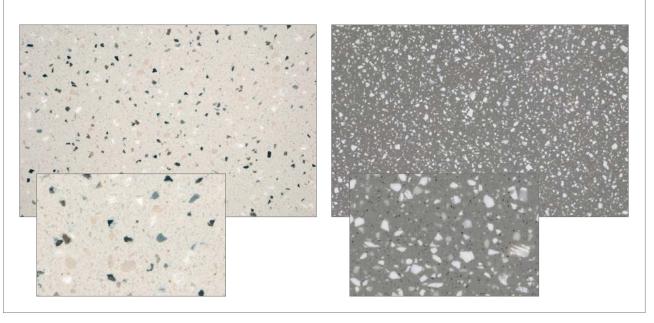


2. Fabrication

2.1 Special Sheet Characteristics

Customer expectations are best managed by fully educating the customer about product characteristics. For instance, the "motion" of chip distribution that appears on the surface doesn't continue directly through the sheet thickness. The top of a Terrazzo sheet looks nothing like the bottom of that sheet and the cross-section looks nothing like either surface. Some of these differences are shown below:

The color and pattern distribution on the surface changes due to random chip distribution of colours in different sizes and partly different collection places. This is a special pattern design and would not be valid for warranty claim.



Hint:

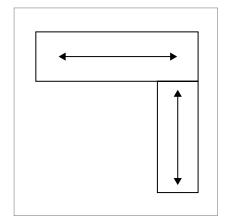
Terrazzo is the same material as any other HI-MACS® product, but it requires special consideration in order to fabricate an aesthetically pleasing finished product. We strongly advise the fabricator to confirm that the purchaser and the end user understand these considerations before proceeding.

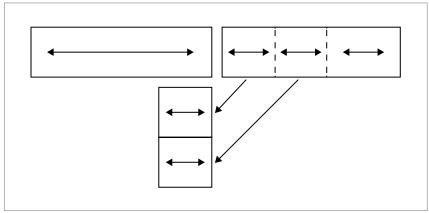




2.2. Sheet to Sheet bonding flow

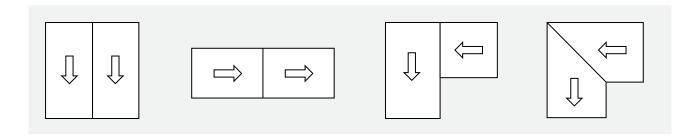
Fabricating an "L-shape" or "U-shape" countertop presents other challenges. Depending on the character of the HI-MACS® material, in some cases you may wish to have the "extension(s)" placed perpendicular to the primary surface (Example 1). In other cases you may find that placing the "extension(s)" on the same plane as the primary surface works best (Example 2). There's no way to determine which method will work best with any particular color other than to visually evaluate the configurations.



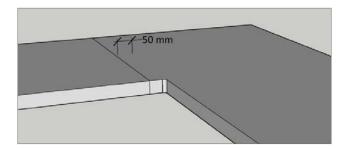


Example 1 Example 2

When bonding sheet to sheet double check the best chip consistency and flow according to its overall look. There's no way to determine which method will work best with any particular color other than to visually evaluate the configurations. Again, We strongly advise the fabricator to confirm that the purchaser and the end user understand these considerations before proceeding.



To achieve the best result of the visible pattern direction, particularly with the Terrazzo colours on an L- or an U-shape counter it may best to lay down the sheets of use to get an overview of continuous flow of chips before starting fabrication:



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The cut has to be prepared absolutely straight and also parallel (mirror cut).

Re-sand the cut edge with sandpaper of approx. 180grit (or 60 micron).

Always clean off the cut edges from dust with a white cloth and use denatured alcohol or acetone.

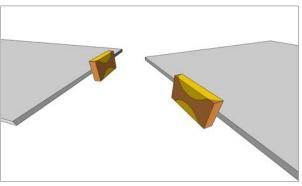
Ensure the edge is absolutely straight when making a seam.

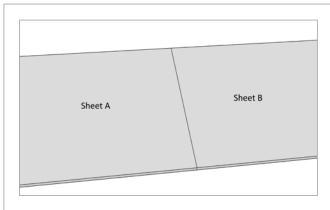
Ideally, make a profile, such as a tongue and groove.

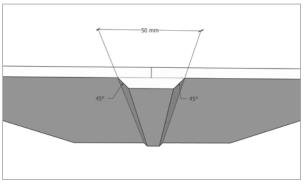
Ensure always to fabricate a re-enforcement strip (for kitchen worktops a 45° angled edge and smooth the adhesive line) from underneath.

Always tighten pressure – but do not over tighten the pressure to the seam.









Note:

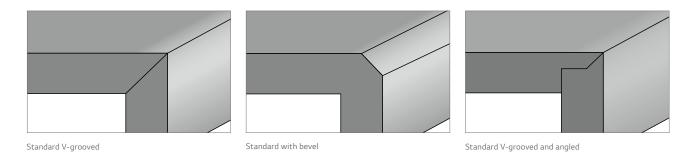
the adhesive is not developed as filler for repairs. In the case of damage to the surface it is strongly recommended to make a plug repair if possible (tools should be readily available local to you to purchase – please contact your local technical support).





2.3 Edge bonding flow

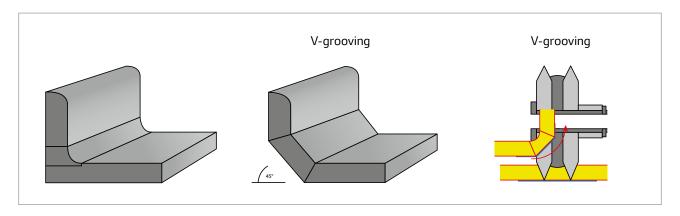
To let the pattern flow around the edges a 45° angled cut of the edge or an alternative rebate is one of the best solutions.



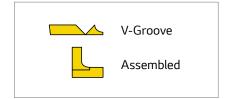
For the bonding process of the edges please follow the instructions of edge treatments. Also here: We strongly advise the fabricator to confirm that the purchaser and the end user understand these considerations before proceeding; a sample should be prepared for the client to view and sign off.

2.4 Backsplash 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.



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







2.5 Sanding (finishing)

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



Standard recommendation

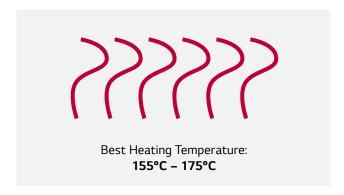
| | | | | | LUCII OLOGO EINUGII | |
|---------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------|--------------------|
| FINISH-LEVEL | MATT-FINISH | | SEMI-GLOSS-FINISH | | HIGH-GLOSS-FINISH | |
| HI-MACS® colour family | for 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 dust 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 dust away | | take dust away | |
| Step 4 | industrial paper towel | "useit®" Superpad S/G Scotch Brite™ Maroon 7447 | "useit [®] " Superpad S/G Scotch Brite™ Super fine Grey | 380/400 | 15 μ | 380/400 |
| | take dust away | | take dust away | | take dust away | |
| Step 5 | | industrial paper towel | industrial paper towel | "useit®" Superpad S/G Scotch Brite™ Super fine Grey | 9 µ | 600/800 |
| | | | take dust away | | take dust away | |
| Step 6 | | | | industrial paper towel | Finesse-it™ Finish- component | 1200 |
| | | | | | take dust away | |
| | | | | | | 1500 |
| Step 7 | | | | | | 1800 |
| | | | | | | 2500 |



2.6 Thermoforming

To prepare the workpieces, follow the standard thermoforming process.

The recommended thermoforming process is to use 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 recommendation of smallest radius for 2D of Terrazzo is approx. ≥200mm.

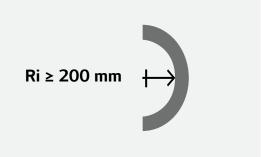
Ensure the work-piece is heated totally through.

Be aware that not using recommendations in relation to the radii can cause some colour change or create some cracking or damages to the work-piece.

For any technical inquiry contact your local technical support.

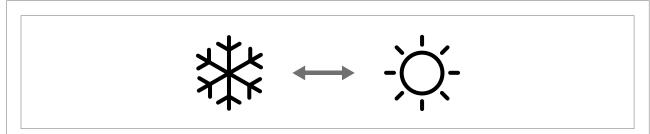
For more detailed thermoforming equipment or any thermoforming accessories please contact global@nabuurs.com or visit the website: www.globalvacuumpresses.com





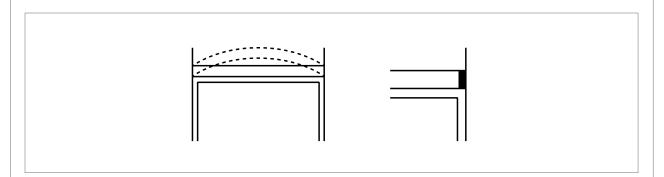


3. Thermal Expansion



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:

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





4. Quality Check

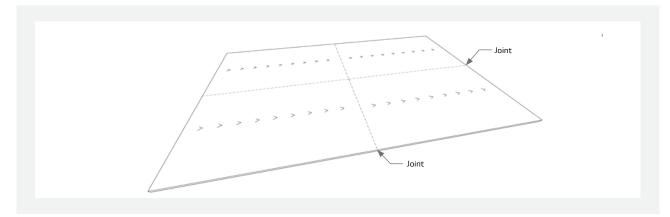
| ☐ Check any fabricated item on quality aspects before leaving the workshop. | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|
| \square In case of any mistakes it easily can be repaired in the workshop and keeps the time of re-work very low. | |
| ☐ Any damage or any mistakes which will be recognized at a later time will make the fixing much more exper | sive. |
| Important Hint: Remember that the 15 Year Limited Installed Warranty does not cover any failures due to fabrication or installation mistakes. | |

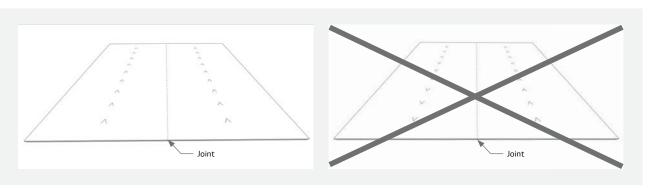


■ 5. Summary of Hints

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 (no turn of any sheet by 90°, 180° or 270°).





Terrazzo is the same material as any other HI-MACS® product, but it requires special consideration in order to fabricate an aesthetically pleasing finished and designed product. We strongly advise the fabricator to confirm that the purchaser and the end user understand these considerations before proceeding.

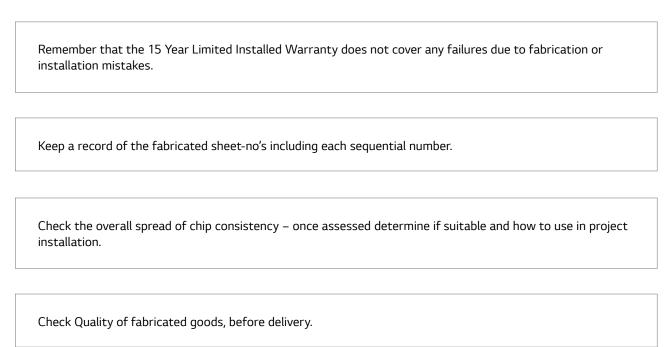
The adhesive is not developed as a filler for repairs. In the case of damage to the surface it is strongly recommended to make a plug repair if possible (tools are available on the market - please contact your local technical support).



Interior Solid Surface Material



5.1 Hints and Tips





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