Interior Solid Surface Material

HI·MACS





1. Sub-construction For Horizontal Applications / Interior

HIMACS Natural Acrylic Stone™ mainly needs to be supported to avoid any kind of dip. Depending on the application, the following support materials are recommended:

- Steel/stainless steel profiles
- Aluminum/aluminum profiles
- · Moisture-resistant MDF, Moisture-resistant plywood or Moisture-resistant Particle Board
- Particle board
- Plasterboard or other alternative constructional boards

Ensure the sub-construction is resistant according to its requirements and specifications needs. When used as a kitchen work surface, a frame substructure is strongly recommended. A full sub-structure can, but need not, be used (Fig.1).

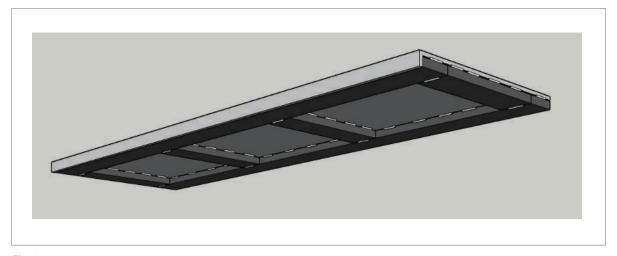


Fig.1

Adjust all substructures with **permanent elastic adhesive** or with permanent elastic PU adhesive to the back of the HIMACS sheet; preferably in dots at a maximum spacing of approximately 100 mm or accordingly to the construction needs.

Use a mirror tape in between the dots to avoid long waiting time of the silicone or PU curing time.

The use of a mirror tape with a foam base is also practical as it ensures an even placing of the sub-construction without any uneven moves.

When to expect some weight to be place on the surface at a later time some plastic or wooden strips may be placed between HIMACS sheet and sub-construction to avoid any unexpected move or warping of the top due to heavy weight placed for a long time on one position. Fig.2

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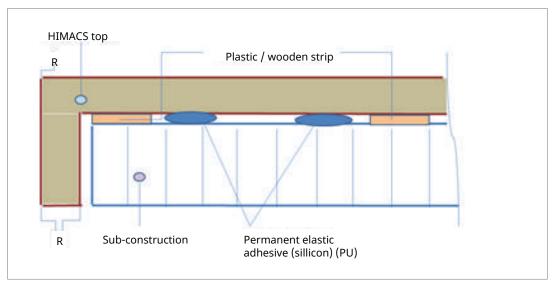


Fig.2

Sub-construction strips made in wood for a standard kitchen counter should have at least a width of approx. 80 mm and a material thickness of approx. 26mm; or accordingly to the calculation of static needs of the used material.

Rebate for reinforcement strips should also be taken into the material preparation work for the sub-construction application and pointed out when special parts may outsourced to metal work.

Be aware that the sub-construction will be different with reference to the material thickness, its use and its application. Ensure to take each single point of necessary job issue into consideration.



Note:

It is fabricators professional responsibility to choose the right construction method for each single project with its HIMACS material performance as well as its project needs to choose the right materials and fulfil the foreseen requirements – best by engineering support.

Fig.3 Example: Steal construction for a car platform / show room



Where no heat source is foreseen, like breakfast bar tops or table, counters or furniture's a full underlayment (Fig.4) can be placed, when taking into consideration the dilatation and expected weight foreseen for the top – choose the right thickness of material for the right job.

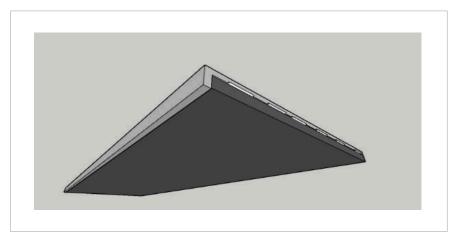


Fig.4

2. Sub-construction For Vertical Applications / Interior

With regards to the product thickness the right sub-construction must be chosen to avoid any shadowing or warping during the time of use.

Ensure – where heating sources – such as lamps or sunshine – the panel always need to move according to its dilatation.

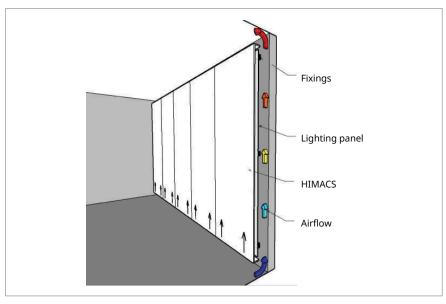
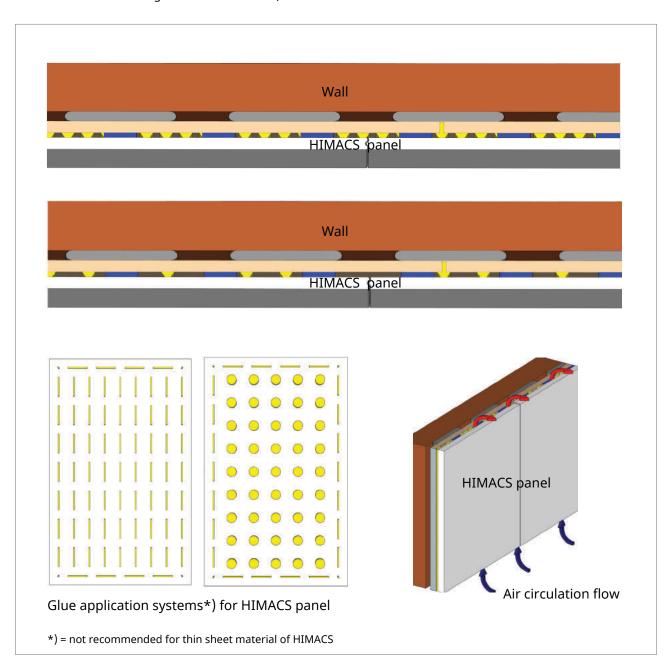


Fig.5



Avoid any creation of moisture of the backside of HIMACS panel. Best to reach with:

- All-over adhesion with toothed spatula and with permanent elastic adhesive (especially when using thin sheets of HIMACS(like 4.5mm thickness)
- Stripes of permanent elastic adhesive and air circulation*)
- Mechanical fixing and air circulation *)





Here some samples of different kind of fixing techniques which can be used.

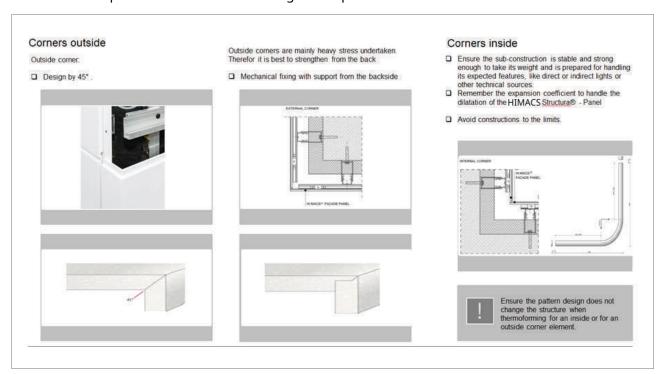


Fig.6

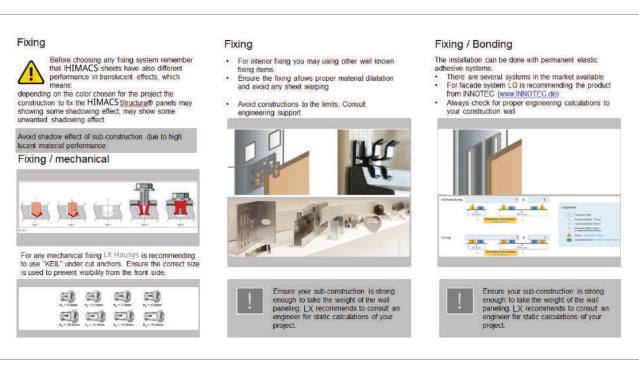


Fig.7

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