FEEL DATASHEET



FICHA TECNICA · FICHE TECHNIQUE

FEEL

The percentage of post-consumer glass within FEEL.

The technique for producing the glass mosaics involves two steps:

- a) The melting of the post-consumer glass with a small percentage of the base composition.
- b) Adjustment of the surface characteristics of the glass after the melting is completed.

A brief description of the steps is as follow:

a) Melting of the post-consumer glass.

Composition of the materials used to make Trend FEEL mosaics includes a minimum of 80% of the post-consumer glass, except for color 2100 (white). The rest of the composition includes raw materials such as oxides, which are required for melting and also for refining the glass. The Glass is sourced wholly from external glass recycling facilities and is post consumer waste. The glass is melted at a temperature of 1450 deg C (2642 F.) using natural gas as the fuel.

The composition of the non-glass raw materials is as follows:

COMPOSITION OF THE BATCH IN OXIDES												
COLOR NO	2100	2102	2104	2110	2112	2114	2120	2122	2124	2130	2132	2134
COLOR	White	Grey Medium	Black	Blue Light	Blue Medium	Blue Dark	Amber Light	Amber Medium	Amber Dark	Green Light	Green Medium	Green Dark
Silica (Si02)	48.4	62.6	52.1	62.6	62.6	62.6	56.6	56.6	56.6	62.6	62.6	62.6
Boric Oxide (B203)	0.6	1.2		1.2	1.2	1.2	2.4	2.4	2.4	1.2	1.2	1.2
Calcium Oxide (Ca0)	5.6	5.6	11.6	5.6	5.6	5.6	9.7	9.7	9.7	5.6	5.6	5.6
Potassium Oxide (K20)	0.7						0.4	0.4	0.4			
Fluoride (F2)	1.6	4.6	8.3	4.6	4.6	4.6	9.0	9.0	9.0	4.6	4.6	4.6
Aluminia (Al203)	5.4	7.4	5.3	7.4	7.4	7.4	5.7	5.7	5.7	7.4	7.4	7.4
Sodium Oxide (Na20)	20.3	18.1	21.6	18.1	18.1	18.1	15.7	15.7	15.7	18.1	18.1	18.1
Zinc Oxide (Zn0)	4.8	0.6	1.0	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6
Antimony Oxide (Sb203)	1.8											
Phosphorous pentoxide (P205)	11.1											
Total	100	100	100	100	100	100	100	100	100	100	100	100

The composition of the final batch containing the post-consumer recycled glass is a follows:

	U.A.	IDE COMPO	JI I ON OF	THE BAICI	H WITH THE	1031-001	JOINER INC	LUDED				
COLOR NO	2100	2102	2104	2110	2112	2114	2120	2122	2124	2130	2132	2134
COLOR	White	Grey Medium	Black	Blue Light	Blue Medium	Blue Dark	Amber Light	Amber Medium	Amber Dark	Green Light	Green Medium	Green Dark
Silica (Si02)	5.0	4.7	9.6	4.2	4.8	4.6	4.2	4.2	4.5	5.0	5.0	4.6
Boric Oxide (B203)	0.1	0.1		0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1
Calcium Oxide (Ca0)	0.6	0.4	2.2	0.4	0.4	0.4	0.7	0.7	0.8	0.4	0.4	0.4
Potassium Oxide (K20)	0.1						0.0	0.0	0.0			
Fluoride (F2)	0.2	0.3	1.5	0.3	0.4	0.3	0.7	0.7	0.7	0.4	0.4	0.3
Aluminia (Al203)	0.6	0.6	1.0	0.5	0.6	0.6	0.4	0.4	0.5	0.6	0.6	0.6
Sodium Oxide (Na20)	2.1	1.4	4.0	1.2	1.4	1.3	1.2	1.2	1.3	1.5	1.5	1.3
Zinc Oxide (Zn0)	0.5	0.04	0.2	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Antimony Oxide (Sb203)	0.2											
Phosphorous pentoxide (P205)	1.1											
Post-consumer cullet within the batch	89.75	92.50	81.50	93.33	92.3	92.59	92.59	92.58	92.00	92.00	92.00	92.59
Total	100	100	100	100	100	100	100	100	100	100	100	100

FEEL DATASHEET



FICHA TECNICA · FICHE TECHNIQUE

FEEL

The percentage of post-consumer recycled glass (cullet) within the batch:

% POST CONSUMER CULLET WITHIN THE BATCH BEFORE ADDITION												
COLOR NO	2100	2102	2104	2110	2112	2114	2120	2122	2124	2130	2132	2134
COLOR	White	Grey Medium	Black	Blue Light	Blue Medium	Blue Dark	Amber Light	Amber Medium	Amber Dark	Green Light	Green Medium	Green Dark
Post-consumer cullet within the batch	89.75	92.50	81.50	93.33	92.3	92.59	92.59	92.58	92.00	92.00	92.00	92.59

b) Adjustment of the surface characteristics of the glass after the melting is completed.

Once the melting is completed the process of mixing and reheating homogenizes the glass. In the production of FEEL we have an additional phase, wherein the glass is worked upon to obtain the special surface characteristic of this product. This phase involves the addition of sand and coloring oxides to the glass surface to produce its unique texture and to limit shade variation. The sand added at this point does not melt and goes to modify the glass and create the special characteristic of the FEEL surface.

The additions that are normally made to the glass at this point are as follows:

With the addition of sand and oxides the percentage of post-consumer glass within the whole composition changes as per the table shown:

% POST CONSUMER CULLET WITHIN THE BATCH BEFORE ADDITION												
COLOR NO	2100	2102	2104	2110	2112	2114	2120	2122	2124	2130	2132	2134
COLOR	White	Grey Medium	Black	Blue Light	Blue Medium	Blue Dark	Amber Light	Amber Medium	Amber Dark	Green Light	Green Medium	Green Dark
Post-consumer cullet within the batch	45.20	67.49	60.24	77.76	70.57	71.36	67.57	67.51	70.69	65.58	65.64	70.57

The production techniques explained above and the composition of the raw materials used to make Trend FEEL glass mosaic is the basis for the post consumer recycled content claim for this line.

Feel Glass Mosaic is suitable for interior and exterior installation; wet areas and swimming pools are some of the ideal places where to use FEEL glass mosaic.

Because of the superficial treatment done to this line, it will capture and reflect light more than the regular Vitreo Line. All and all, the Feel Collection is a perfect material for all kind of installation, except in commercial floors with high traffic. In that situation, the use of glass mosaic maybe difficult. Please contact TREND USA, so we can provide you with a proper set of info (info-us@trend-group.com).