Document type	**Technical Data Sheet**
Name	**GRASSELLO**
Description	Natural, lime-based material for decorative finishes on interior wall surfaces. Naturally anti-mould and breathable. It belongs to the family of Venetian polished plasters (Marmorino) of which it is the glossiest and with most visible trowel movements, having an extra fine grain. Ideal for mirror walls effects.
Composition	Aged, slaked lime and selected marble powders.
Grain size	Marbles: 50 microns, Lime: 100 microns
Appearance	Paste
Colour	White, it can be tinted in any colour with lime-compatible colourants
Packaging	20 kg net polyethylene containers 7 kg net polyethylene containers
Application	By hand, with a steel trowel
Type of Surface	Interior walls New Wall Surface Plaster: no priming necessary Gypsum / Plasterboard / Medium Density: one coat of DEKO PRIMER Old Wall Surface Plaster: one coat of DEKO PRIMER Fast drying / Limewash: brush down and apply one coat of DEKO PRIMER Polished Lime: Abrade, brush down and apply one coat of DEKO PRIMER Washable Paint: one coat of DEKO PRIMER
Dilution	Ready to use
Consumption	750 g/m2 after three coats
Drying	3 hours at 20°C / 68°F to the touch 48 hours at 20°C / 68°F below the surface 180 days stable
Application temperatures	min 5 max 30°C – R.U. < 85% ca
Coat Thickness	0.7 – 0.9 mm for a total of 3 coats
VOC Classification	EU Directive 2004/42/CE: EU limit value for this product (cat A/l – water-based decorative effect coating): 200 g/l (2010). This product contains less than 1 g/l of VOC.
Specific Weight	1.4 ± 0.2 (kg/l)
pH after 30 days	12.5 ± 0.50
Vapour Permeability	SD ~ 0,04 m (DIN 52 615)
Flammability	European Class of Reaction to Fire A1: non-combustible, no contribution to fire
Mould Resistance	ASTM D 3274 – “Standard Test Method to evaluate the degree of surface disfigurement of paint by microbial, fungal and algae growth. Result: Front Panel 10/10/10 Back Panel 10/10/10 = no growth

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Scrub Test Resistance	ASTM D 2486-06 method A = was used: scrubbing fine sand + metallic brush for 10,000 cycles
Impact Test	UNI EN ISO 6272-2-2006. 1 kg doming punch was dropped from different heights and only at the height of 8 cm., it left a 5.5 mm. dent in the surface and a tiny crack appeared around its circumference.
Pencil Hardness	ASTM D3363- Pencil hardness 5H
Shore Hardness	Norm ASTM 2240 average
Adhesion	Norm UNI EN 13892-8 2004 average value = 2,0
Shelf life	36 months when stored according to the recommended guidelines
Storage	In original sealed packaging between 5° - 35°C in a dry, dark environment
Safety Norms	Irritating. / Risk of serious damage to eyes. / Irritating to the skin. / Keep out of children. / Avoid contact with eyes. / In case of contact with eyes, clean immediately with water without rubbing them, and consult a doctor. / Wear suitable gloves and eyes / face protection. / In case of ingestion of the products, consult immediately a doctor showing him the can or the label of the product. Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments. The product must be transported, used and stored according to current standards of hygiene and safety.
Disposal	Product must be disposed of according to norms and regulations in force. Containers must be sent for recycling. Follow directions on the packaging
Application Instructions	WARNINGS Water on the surface of the material in the bucket is normal and should be removed before use or addition of colourants. All lime-based products lose their viscosity when mixed and need a period of 6/12 hours after mixing to regain their density. This product is dense, and ready for use; thus it may be necessary to use an appropriate drill attachment to stir for a few minutes to reduce viscosity. Choose the colour and add the toner additive to the container and continue mixing until a homogeneous shade is obtained. Let the product rest for about 5 hours before you begin to use it. We recommend using materials from the same production batch for the same project. If you must use different batches, we suggest mixing their material together to avoid any slight variations in shading. To ensure proper usage, dilution, and application of the products mentioned in these pages, please consult the corresponding technical data sheets. When preparing the surface and applying the materials, we advise using appropriate tools and personal protective equipment (PPE). During application and for the following 72 hours, protect the surfaces from sudden temperature change, direct sun light and water. Don't apply in temperatures below 8°C or above 35°. During application make sure that the work area isn't too damp to avoid problems with application times. Remember to have a strong light parallel to the wall and situated on only one of the two sides of the wall you are working on (usually on the same side as other sources of light such as windows). In this way the shadow of the trowel allows you to see the actual state of the finish. Every so often, during the second and third coat, the light

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	should be moved so that the wall doesn't dry out too much in one spot from the heat of the lamp. APPLICATION Protection of the work area: Masking tape and protective material over the baseboards and around windows and doors. STUCCO GRASSELLO is a very thin material. For this reason, it has to be applied on very smooth surfaces. Using approximately 350-400 g/sqm, apply this coat on the primer taking care to apply it evenly and without ridges. Make sure not to polish this coat, as it will lead to adhesion problems in the final coat. You can remove any ridges with the help of a spatula or light sanding. Dust the surface and apply the second coat. Begin applying the second coat, after the first is completely dry, using about 250-300 g/sqm. Make sure that the surface is as smooth and ridges-free as possible, but do not induce any shine. Apply the third coat of STUCCO GRASSELLO when the drying process of the second coat is beginning. Use about 120 g/sqm for the final coat. For this coat, use a clean stainless-steel trowel well prepared with the edge of the blade well-polished and rounded, not sharp. Go over several times with the trowel to polish the surface. The wall becomes shiny by pressure applied by the blade of the trowel on the wall. A final polishing can be done with a non-woven fabric. SPECIAL EFFECT: To obtain a spatulate effect it is recommended to apply the second layer with single small strokes of the trowel alternating a full space to an empty space and returning after a few minutes on the same area to complete the application by putting spatulates/strokes of material where we left empty spaces. The last coat will be applied normally
Finish Protection	Interior: HYDROCALCE / BEESWAX / MINERAL WAX / MARSEILLE SOAP A protective treatment is optional in most circumstances. It is however necessary in bathroom, kitchen and splashback walls. After a minimum of 12 hours, at least one coat of the following can be applied: A) MARSEILLE SOAP protective coating with a steel trowel. After 12 hours, go over the surface with a cloth to remove the coat of surface powder produced by unabsorbed soap. B) NATURAL BEESWAX applied with a sponge. After a little while, before it dries, rub vigorously with a woollen or soft cloth to obtain an even polish. C) MINERAL WAX can be applied. First apply a coat of MINERAL WAX and soon, once it is completely dry, a very thin layer of MINERAL WAX, which gives an extra shine effect and a strong and durable water resistance.
Maintenance	Little maintenance is needed, brushing off dust occasionally
Tools	SI TROWEL, CORNER TROWEL, BIANKO, SCRAPERS, NON-WOVEN FABRIC Clean with water immediately after use
Complements	METALLIC BEESWAX / PERLA WAX

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We have drawn up the material presented above to the best of our technical and experiential knowledge. Nevertheless, our suggestions and recommendations are not guaranteed. All responsibility for the obtained results lies solely with the method and conditions adopted for the application of the product. Such indications constitute valid support for verifying the product's suitability for the specific case. We reserve the right to make modifications to the present information without previous warning.

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