



# INTOCOL S1 FLEX



**HIGH-PERFORMANCE CEMENTITIOUS ADHESIVE – DEFORMABLE, EXTENDED OPEN TIME – INCREASED ADHESION SPECIFIC FOR THE LAYING OF LARGE SIZES ON BIG SURFACES CLASS C2 TE S1 • Conforms to UNI EN 12004**

## DESCRIPTION

Premixed adhesive based on cement class C2 TE S1 for the indoor and outdoor installation of floor and wall coverings, with high workability, extended open time and increased adhesion and good capacity to absorb the substrate's deformation, zero vertical slip. Specific for floor and wall coverings also non-absorbent, natural stones, overlapping non-absorbent materials, large formats on large surfaces screeds with insertion of underfloor heating, for application of porcelain stoneware at low thickness.

## COMPOSITION

White or grey cement, selected siliceous aggregates with grading from 0 to 0,6 mm, special resins natural additives tested for the specific use which give to the product a very high adhesion and workability.

## CHARACTERISTICS

An accurate and selective choice of the main materials made with a perfect grading curve, thanks to the use of our own crush system, produce just adding water a mortar very plastic and easily workable. Used as adhesive Alloy perfectly on all types of indoor and outdoor substrates as long as they are stable. Non-wrinkle, non-slip, breathable and impact resistant. It is the ideal adhesive for indoor and outdoor installation of floor and wall coverings, including non-absorbent and natural

stone and overlapping non-absorbent materials, large formats on large surfaces, on screeds with insertion of under-floor heating, specific for applications in facade and for industrial and commercial flooring, as well as civilian.

## AVIABILITY

INTOCOL S1 FLEX B: white;

INTOCOL S1 FLEX G: grey;

## USE

INTOCOL S1 FLEX is a premixed cementitious adhesive at compensated shrinkage and controlled dry with high workability, extended open time and more adhesion and good ability to absorb the substrate's deformations, zero vertical slip, frost-proof with high registrability, excellent moisture resistance, to ageing, to acids and alkalis. Ideal for laying floors and walls with dimensions greater than 60x60 cm and on also non-absorbent and smooth substrates, natural stones and overlapping non-absorbent materials, specific for the overlapping of large formats (over 30x30 cm) and on substrates also non absorbent and smooth, to apply directly on every type of interior and exterior as long as it is stable as: old and new plasters based on lime and cement, cementlime mortars, premixed or traditional cementitious screeds, smoothed concrete floors, cured concrete, old tile and natural stone supports, underfloor heating, cementitious two-component and single-component waterproofing products "INTOIDRO ELS" and "INTOIDRO MONO". Specific for the installation of any floor and wall covering such as: ceramics, cotto tiles, natural stones, gres, etc. Specific for gluing floors on screeds with insertion of underfloor heating specific for applications in facades and for industrial and commercial as well as civil flooring, for gluing of insulating materials (polyurethane Eps, xps, stone wool or glass, cork), bonding of floors subject to heavy stress and intense traffic, gluing of tiles in swimming pools and pools, bonding of thin porcelain stoneware.

## APPLICATION

Preparation of the substrates by removing all the dilapidated and inconsistent parts; removing foreign bodies such as dust, mud, bitumen, oil stains, etc.

Need to preventively wet particularly absorbent or dry surfaces or surfaces exposed to hot climates.

- To be mixed by hand or with a low speed mixer until the mixture is homogeneous.
- INTOCOL S1 FLEX is applied with a toothed trowel compressing it to the surfaces, first with the smooth part of the trowel and then with the toothed part so as to homogenize the absorptions, thus not affecting the performance of the adhesive, it is advisable, for external covering applications, to spread the product also on the back of the tiles in order to avoid cavities.
- Make sure that no surface film forms during the application phase, in this case apply again with fresh product.
- For difficult substrates mix INTOCOL S1 FLEX with latex "INTOGUM".
- For direct application on blocks in autoclaved cellular concrete and in general to increase the characteristics of adhesion and elasticity, mix with "INTOELASTIC" (acrylic dispersion) instead of the water of the mix thus obtaining a highly elastic and deformable adhesive to be applied directly on blocks of unplastered autoclaved cellular concrete, after application of primer "INTOAGGRAPPO".



# INTOCOL S1 FLEX



- In case of high temperatures, wind and low humidity, it is recommended to protect from rapid drying by moistening the substrates.
- Do not apply on frozen substrates, when thawing or when there is a risk of freezing within 24 hours.
- Apply on gypsum, anhydride and aerated concrete substrates, previously treated with an adhesion agent "INTOAGGRAPPO" to apply at least 4/6 hours before.
- Do not apply on painted substrates.
- Do not apply in full sun or strong winds.
- Do not apply on fresh application substrates.
- Do not apply in heavy rain.
- Do not apply in wood, metal surfaces, in rubber, pvc, linoleum and in general on substrates subjected to strong vibrations.
- Do not apply with marble or natural stone slabs subject to efflorescence or stains.
- Do not add any other materials to the product.
- INTOCOL S1 FLEX shall be processed at temperatures between + 5 °C and + 30 °C.
- Time of walkability at least 24/48 hours.
- Hardening time at least 13/15 days.
- Waiting time for wall joints of at least 6/8 hours.
- Waiting time for floor joints of at least 24/48 hours.

## YILED

2/5 kg/mq.

## PACKAGINGS

Multilayer paper bags with protective film of kg 25 on wooden pallets of 17,50 ql. (70 sacks).

## TECHNICAL SPECIFICATIONS IN ACCORDANCE WITH UNI EN 12004

<b>Water content of the mix</b>	~22-24%
<b>Grain size EN 1015-1</b>	≤ 0,6 mm
<b>Specific weight EN 1015-10</b>	1.200 kg/m <sup>3</sup> ± 10%
<b>PH mixed</b>	12
<b>Open time EN 1346</b>	>30 minutes
<b>Pot life</b>	8 hours
<b>Initial tensile adhesion after 28 days EN 1348</b>	> 1 N/mm <sup>2</sup>
<b>Tensile bonding after immersion in water EN 1348</b>	> 1 N/mm <sup>2</sup>
<b>Tensile bonding after thermal ageing EN 1348</b>	> 1 N/mm <sup>2</sup>
<b>Tensile bonding after frost and thaw cycles EN 1348</b>	> 1 N/mm <sup>2</sup>
<b>Vertical slip EN 1308</b>	< 0,5 mm
<b>Deformability</b>	> 2,5 mm < 5 mm – S1
<b>Thermal resistance</b>	From - 30 ° C to + 90 ° C
<b>Harmfulness - Regulation EC 1272/08</b>	Danger
<b>Classification UNI EN 12004</b>	C2 TE S1/DOP nr. 148

## SUMMARY

The laying of floors and internal and external coatings, also of low thickness porcelain stoneware, also in overlapping of old ceramic or natural stone substrates, also on floors with underfloor heating, on two-component and one-component cementitious waterproofing products "INTOIDRO ELS" and "INTOIDRO MONO", will be realized with a premixed powder adhesive at extended open time and improved adhesion and good ability to absorb deformations of the substrate and no vertical slip based on cement, type "INTOCOL S1 FLEX" by MALVIN S.r.l., applied by hand and to mix just adding water, with a consumption of 2/5 kg/mq, with classification C2 TE S1 in accordance with UNI EN 12004.04.

*Le caratteristiche prestazionali riportate si riferiscono a prove di laboratorio, i valori possono subire scostamenti in funzione delle condizioni climatiche e modalità di messa in opera. L'utilizzatore deve verificare l'idoneità del prodotto all'impiego previsto.*



# MALVIN



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