



ADESIVI SIGILLANTI PRODOTTI CHIMICI PER L'EDILIZIA

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Milano, il 30th May 2006  
ref.No.AT/0901bis/2006/MA/st

Copy to: Mr Mike Mikalizzi – MAPEI CORP

**Subject:** results of the bonding tests carried out on the aluminium alloy mosaic and profiles you sent us

Following the bonding tests carried out in our lab on the samples of mosaic and aluminium alloy profiles in subject, hereby we inform you about the results.

The mosaic and the profiles in subject have an angle back side that allows to the adhesive an improved mechanical anchoring.

The bonding tests have been carried out by the use of the following adhesives:

- **PLANICRETE W** reactive polyurethane adhesive;
- **ULTRAFLEX 2** professional-grade, single-component, high-performance, polymer-modified thin-set mortar;
- **GRANIRAPID** rapid setting, flexible, polymer modified mortar.

Grouting has been carried out by the use of the following products:

- **KERAPOXY** premium-grade, water-cleanable, 100%-solids epoxy mortar;
- **ULTRACOLOR** fast-setting, polymer-modified, color-consistent, nonshrinking, efflorescence-free grout for joints;
- **KERACOLOR** polymer-modified sanded Portland-cement tile grout that requires only the addition of water for mixing.

On the strength of the results, we confirm that both the types of adhesives (cementitious, i.e. **ULTRAFLEX 2** and **GRANIRAPID** and reactive ones, i.e. **PLANICRETE W**) are suitable for the laying of the materials in subject.

**ULTRAFLEX 2** can be used for the laying on cementitious screeds and renders. Grouting could be carried out (by the use of the under mentioned products) the day after the laying.



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**GRANIRAPID** can be used for a rapid laying onto the a.m. substrates and the grouting could be carried out after three hours, in a temperature condition of +20°C.

**PLANICRETE W** can be used for the laying onto particular substrates such as metal, wood, fibreglass, etc..

As far as the grouting is concerned, we suggest the use of a cementitious grout, such as **ULTRACOLOR** or **KERACOLOR**. We do not advise the use of **KERAPOXY**, since the metal surfaces of the samples are rough and the cleaning could be difficult.

In the table below we show the obtained results.

	<b>Adhesion</b>	<b>Grouting</b>
<b>PLANICRETE W</b>	<i>excellent</i>	--
<b>ULTRAFLEX 2</b>	<i>good</i>	--
<b>GRANIRAPID</b>	<i>good</i>	--
<b>ULTRACOLOR</b>	--	<i>excellent</i>
<b>KERACOLOR</b>	--	<i>good</i>

The above mentioned products are available on the US market.

For the technical characteristics and the application procedure please refer to the appropriate data sheets available on the site [www.mapei.com](http://www.mapei.com).

The Technical Service of MAPEI Corp. is always at disposal for any information you may need (tel. +1/954/246/8888, Deerfield Beach Florida).

We remain at disposal for any further information.

Best regards.

MAPEI S.p.A.  
 Technical Assistance Department

Marco Albelice

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