<page>087v</page>

<image>http://gallica.bnf.fr/ark:/12148/btv1b10500001g/f180.image</image>

<div>  
<id>p087v\_a1</id>  
<head>Sand, <m>slate</m>, and <m>burned earth</m></head>

<ab>Very burnt sand loses its bond. <m>Slate</m> is reheated &amp; molds neatly. Next, it is true that often it becomes porous, like <m>burned earth</m> also does, like <m>fat sand</m> also does.</ab>

<ab>  
<margin>left-top</margin>  
I find that one ought not to knowck on very finely ground sands, for it shakes them loose, &amp; <del>make</del> prevents them from releasing neatly. But one ought to press hard and moisten them sufficiently.</ab>

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<div>  
<id>p087v\_a2</id>  
<head><m>Magistra</m></head>

<ab><pro>Founders</pro> take the <m>roots of a young <pa>elm</pa></m> when it has sap, &amp; boil it in <m>wine</m>, or better yet <m>vinegar</m>, and keep it <tmp>all year long</tmp> in a <tl>cask</tl>.</ab>

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<div>  
<id>p087v\_a3</id>  
<head><m>Sand from the <env>mine</env> of <pl>Thoulouse</pl></m></head>

<ab> Casting sand coming from the <env>mine</env>, once passed through a <tl>double sieve</tl>, next put in with <m>melted resin</m>, burns &amp; inflames &amp; becomes all red &amp; inflamed like <m>iron</m>. Once cold it is completely black and can be ground very finely on <tl><m>porphyry</m></tl>. Thus having prepared it &amp; render it without asperity on the <tl><bp>fingernail</bp></tl>, I moistened it with <m>beaten egg glair</m> &amp; beat it well, until it was not pasty but rather powdery. I found it of very good release, &amp; molded with it in <m>lead</m> &amp; <m>tin</m> very neatly, but it wants to be well reheated &amp; at ease.</ab>

<ab>Others beat it well in a <tl>mortar</tl>, in small amounts at a time, &amp; thus it detaches and renders very finely. Then they reheat it moderately, only to dry it. Then they grind it dry on <tl><m>porphyry</m></tl>. And thus it becomes as if impalpable, and not too dried out, <del>it</del> and it retains body &amp; bond of the <m>earth</m> of which it is related, and is better than when it is very burnt. Once moistened with <m>egg glair wiped with a <tl>sponge</tl></m>, it releases <del>very neatly <fr>M</fr></del> very neatly in low relief, but not for figures in high relief. Therefore, since then I experimented <del><fr>lexper</fr></del> with moistening it only with very strong <m>vinegar</m>. It released a figure which I could not release previously. And I believe that, moistening the finest in the same way like with <m>glair</m> &amp; the lumpiest, to fill the <fr>chasses</fr> with <m>salt water</m> or <m>wine</m>, that they do not ally so well. Since they are of the same nature &amp; are moistened the same, they embrace each other, &amp; hold together one with the other.</ab>

<ab>  
<rub>To mold well</rub>, after having prepared your sands, mold <tmp>in a day</tmp>. Slowly reheat them <tmp>the next day</tmp>, then cast them on another.

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<ab>  
<margin>left-middle</margin>  
One ought to choose the one which is usually <del>as</del> in clods &amp; lumps, well <env>deep in the earth</env>, for usually the one that is found <env>above</env> has too much <m>earth</m>, and the deep one is similar to <m>rock</m>.</ab>

<ab>  
<margin>left-middle</margin>  
I have molded with it in <m>pure lead</m> very <del>neatly</del> hot, &amp; I had as an example the first very neat one, but the <m>vinegar</m> hardly gives it any bond, &amp; thus it withstood only one cast. </ab>

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