



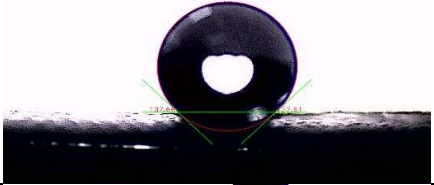

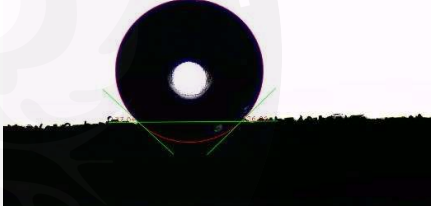
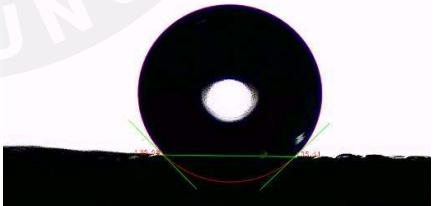
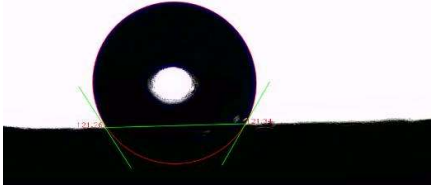


LAMPIRAN


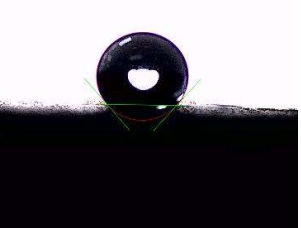

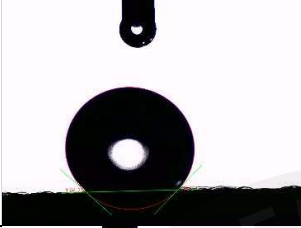
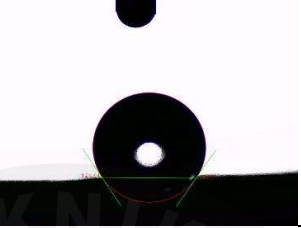
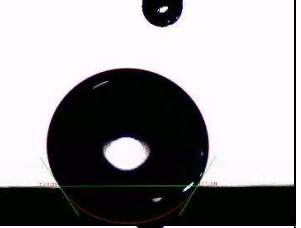

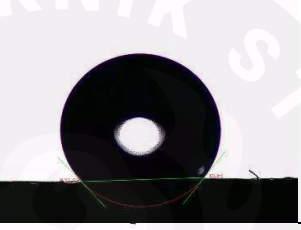
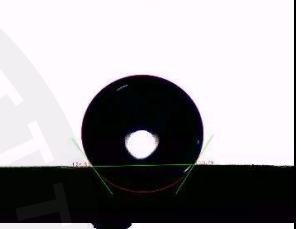


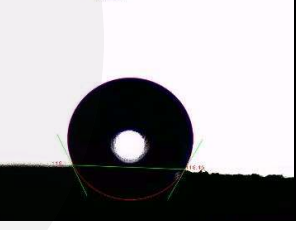
Lampiran 1. Hasil Uji Siram

| | | |
|--|--|--------------------------|
| <p>Kain blanko (resin silika tanpa penambahan <i>silane coupling agent</i>)</p> |  | <p>Nilai : 0</p> |
| <p>Kain hasil proses penyempurnaan dengan silika silanasi NXT 10%</p> |  | <p>Nilai : 70</p> |
| <p>Kain hasil proses penyempurnaan dengan silika silanasi NXT 20%</p> |  | <p>Nilai : 80</p> |
| <p>Kain hasil proses penyempurnaan dengan silika silanasi NXT 30%</p> |  | <p>Nilai : 50</p> |





Lampiran 2. Hasil Uji Sudut Kontak





| | |
|---|--|
| <p>Resin Fluorokarbon (Texaguard)</p> |  |
| <p>Blanko (Resin silika tanpa silan NXT)</p> |  |
| <p>Silika Silan NXT 10%</p> |  |
| <p>Silika Silan NXT 20%</p> |  |
| <p>Silika Silan NXT 30%</p> |  |





Lampiran 3. Hasil Uji Sudut Kontak Setelah Pencucian Berulang

| Jenis Resin | Pencucian Berulang | | |
|------------------------------------|---|--|---|
| | 1x | 3x | 5x |
| Resin Fluoro - karbon (Texa-guard) |  |  |  |
| Silika Silan NXT 10% |  |  |  |
| Silika Silan NXT 20% |  |  |  |
| Silika Silan NXT 30% |  |  |  |






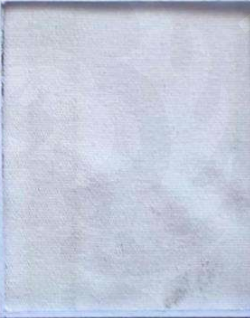






Lampiran 4. Dokumentasi Penelitian

| | |
|---|--|
| <p>1. Proses pembakaran sekam padi pada suhu 800°C selama 6 jam</p> |  |
| <p>2. Proses <i>acid leaching</i> dengan refluks set suhu 90°C selama 4 jam</p> |  |
| <p>3. Proses penyaringan dan penetralan</p> |  |
| <p>4. Oven residu</p> |  |

| | |
|---|--|
| <p>5. Proses alkalisasi dengan refluks set pada suhu 90°C selama 90 menit</p> |  |
| <p>6. Proses penyaringan hasil alkalisasi</p> |  |
| <p>7. Test pH filtrat hasil penyaringan</p> |  |
| <p>8. Proses <i>sol-gel</i> sampai pH 4-5</p> |  |

| | |
|---|--|
| <p>9. Proses pengaplikasian, perendaman kain dengan resin</p> |  |
| <p>10. Proses <i>padding</i> dengan WPU 60%</p> |  |
| <p>11. Proses pengeringan pada suhu 100°C selama 3 menit dan pemanasawetan pada suhu 170°C selama 5 menit</p> |  |
| <p>Uji siram</p> |  |

Lampiran 5. Sampel Pengujian

| Konsentrasi Silane Coupling Agent (NXT) | Sebelum cuci | Pencucian Berulang | | |
|---|---|--|---|---|
| | | 1x cuci | 3x cuci | 5x cuci |
| 10% |  |  |  |  |
| 20% |  |  |  |  |
| 30% |  |  |  |  |