





# SANHO CHEMICAL CO., LTD.

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|                                     |          |          |          |
|-------------------------------------|----------|----------|----------|
| Mixing ratio : Epoxy resin/ FXK-832 | 100 / 40 | 100 / 50 | 100 / 60 |
| Set to Touch Time ( hours)          | 0.9      | 0.9      | 0.7      |
| Tack Free Time (hours)              | 1.9      | 1.7      | 1.6      |
| Dry Through Time (hours)            | 3.0      | 2.7      | 2.1      |

## 4. MECHANICAL (PHISICAL) STRENGTH PROPERTIES OF THE CURED PRODUCTS.

Employing the same epoxy resin as referred in the 3.-(1), the cured properties after 7 days curing at 23°C were observed as follow :

| Mixing ratio: Epoxy resin / FXK-832 |                        | 100 / 40            | 100 / 50            | 100 / 60            |
|-------------------------------------|------------------------|---------------------|---------------------|---------------------|
| Tensile Strength                    | (kgf/mm <sup>2</sup> ) | 5.1                 | 6.5                 | 6.0                 |
| Flexural Strength                   | (kgf/mm <sup>2</sup> ) | 8.1                 | 9.7                 | 9.0                 |
| Flexural Modulus                    | (kgf/mm <sup>2</sup> ) | 4.3×10 <sup>2</sup> | 4.3×10 <sup>2</sup> | 4.5×10 <sup>2</sup> |
| Compressive Strength                | (kgf/mm <sup>2</sup> ) | 12.1                | 12.2                | 12.1                |
| Izod Impact Strength                | (°C)                   | 2.4                 | 2.6                 | 2.7                 |
| Heat Distortion Temperature         | (M Scale)              | 51                  | 52                  | 53                  |
| Rockwell Hardness                   |                        | 77                  | 86                  | 90                  |
| Shore-d Hardness                    |                        | 85                  | 87                  | 87                  |

## 5. CHEMICAL RESISTANCE

Percentage increase in weight were observed as follow after immersing the same test pieces as 3.-(1) at 23°C into the following chemical solutions.

| Elapse of Time<br>Mixing Ratio(phr) | 1 day |     |     | 7 days |      |      | 30 days |     |     |
|-------------------------------------|-------|-----|-----|--------|------|------|---------|-----|-----|
|                                     | 40    | 50  | 60  | 40     | 50   | 60   | 40      | 50  | 60  |
| Tap water                           | 0.1   | 0.1 | 0.1 | 0.3    | 0.4  | 0.4  | 0.7     | 0.7 | 0.7 |
| 5% solution of salt                 | 0.1   | 0.1 | 0.1 | 0.3    | 0.3  | 0.3  | 0.7     | 0.7 | 0.7 |
| 10% solution of Caustic soda        | 0.1   | 0.1 | 0.1 | 0.3    | 0.3  | 0.3  | 0.6     | 0.6 | 0.6 |
| 10% solution of Ammonia             | 0.2   | 0.2 | 0.2 | 0.4    | 0.4  | 0.4  | 0.8     | 0.9 | 0.8 |
| 5% solution of Sulfuric Acid        | 0.1   | 0.2 | 0.2 | 0.4    | 0.4  | 0.6  | 0.7     | 0.9 | 0.8 |
| 5% solution of Hydrochloric Acid    | 0.1   | 0.2 | 0.2 | 0.4    | 0.4  | 0.5  | 0.7     | 0.9 | 1.1 |
| Kerosene                            | 0.0   | 0.0 | 0.0 | 0.0    | 0.0  | 0.0  | 0.1     | 0.1 | 0.1 |
| Isopropyl Alcohol                   | 0.6   | 0.5 | 0.6 | 1.2    | 1.2  | 1.6  | 1.5     | 2.0 | 3.1 |
| MIBK                                | 13.6  | 7.0 | 5.9 | --     | 14.3 | 14.0 | --      | --  | --  |