



SANHO CHEMICAL CO., LTD.

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| Epoxy resin / FXM-823B | | 100 / 40 | 100 / 50 | 100 / 60 |
|------------------------|----------------------|----------|----------|----------|
| 23°C | Set to touch (hours) | 3.4 | 2.4 | 2.2 |
| | Tack free (hours) | 6.1 | 4.2 | 4.1 |
| | Dry through (hours) | 9.1 | 6.1 | 7.0 |
| 10°C | Set to touch (hours) | | 3.5 | |
| | Tack free (hours) | | 10.0 | |
| | Dry through (hours) | | 19.5 | |

©Film thickness about 150um, at 23°C and 10°C

4. MECHANICAL / PHYSICAL PROPERTIES

The mechanical properties of the cured products of the FUJICURE FXM-823B and the same epoxy resin as employed above were measured as follow;

| Epoxy resin / FXM-823B | | 100 / 40 | 100 / 50 | 100 / 60 |
|------------------------|------------------------|---------------------|---------------------|---------------------|
| Tensile Strength | (kgf/mm ²) | 6.0 | 6.8 | 6.5 |
| Flexural Strength | (kgf/mm ²) | 7.5 | 9.0 | 8.8 |
| Flexural Modulus | (kgf/mm ²) | 2.6×10 ² | 3.2×10 ² | 3.3×10 ² |
| Compressive Strength | (kgf/mm ²) | 8.6 | 8.8 | 8.2 |
| Izod Impact Strength | (kgf-cm/cm) | 1.5 | 1.9 | 2.3 |
| Rockwell Hardness | (M-scale) | 78 | 83 | 79 |
| Heat Distortion Temp. | (°C) | 41 | 49 | 50 |

5 CHEMICAL RESISTANCE

Percentage increase in weight of the cured products of FUJICURE FXM-823B and the same epoxy resin as employed above were measured as follow after being cured at 22~23°C for 1 days, 7days and 30 days, and immersing into respective chemical substances.

| Epoxy resin / FXM-823B | 100 / 40 | | | 100 / 50 | | | 100 / 60 | | |
|-------------------------------|----------|-----|-----|----------|-----|-----|----------|-----|-----|
| | 1 | 7 | 30 | 1 | 7 | 30 | 1 | 7 | 30 |
| Immersing time (days) | | | | | | | | | |
| Tap water (23°C) | 0.2 | 0.5 | 1.0 | 0.1 | 0.5 | 1.1 | 0.1 | 0.5 | 1.1 |
| 5% Salt solution | 0.1 | 0.4 | 0.9 | 0.2 | 0.5 | 1.0 | 0.1 | 0.4 | 1.1 |
| 10% Caustic soda solution | 0.2 | 0.3 | 0.8 | 0.1 | 0.4 | 0.9 | 0.1 | 0.3 | 0.8 |
| 10% Ammonia solution | 0.2 | 0.5 | 1.3 | 0.3 | 0.7 | 1.6 | 0.3 | 0.8 | 1.7 |
| 5% Sulfuric acid solution | 0.2 | 0.4 | 0.9 | 0.2 | 0.4 | 1.0 | 0.2 | 0.5 | 1.1 |
| 5% Hydrochloric acid solution | 0.1 | 0.4 | 0.9 | 0.2 | 0.5 | 1.0 | 0.1 | 0.4 | 1.0 |
| Kerosene | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 |
| Isopropanol | 0.1 | 0.4 | 1.0 | 0.1 | 0.4 | 1.1 | 0.0 | 0.6 | 1.3 |
| MIBK | 3.4 | 9.8 | 11 | 1.3 | 4.1 | 8.5 | 1.1 | 3.6 | 7.4 |
| 5% Nitric acid | | | | 0.2 | 0.5 | 1.1 | | | |
| 10% Acetic acid | | | | 0.1 | 0.6 | 1.0 | | | |
| 20% Sulfuric acid | | | | 0.1 | 0.5 | 1.0 | | | |
| Toluene | | | | 0.1 | 1.5 | 4.1 | | | |
| 60°C warm water | | | | 0.5 | 0.8 | 0.8 | | | |



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6 HANDLING (SAFETY) PRECAUTIONS

Since FUJICURE FXM-823B is a modified-amine curing agent, it should be handled with normal care.

Avoid direct contact with any parts of human body. In the case of eye or skin contamination with FXM-823B, the affected part must be first washed thoroughly with plenty of water and soap.

In the case of eye contact, consult a physician afterwards. Keep the container tightly sealed and store in a cool and dry place away from open flames.

7 IMPORTANT NOTICE

All statement technical information, data and recommendations contained in the catalogue are based on tests we believe to be reliable but those are not to be taken as any form of our guarantees for specific properties of our product, nor for any particular applications.

Further study of individual user is requested in the actual usage. User shall determine the suitability of the product for his intended use before using.