



## APPLICATION

SYNTHETIC RESINS - PAINT AND VARNISH /Solvent Based

2 K ACRYLIC RESIN

### IZELCRYL 16SN60 1.6 %OH

#### STARTING PAINT FORMULATION

| COMPONENT        | AMOUNT % |
|------------------|----------|
| IZELCRYL 16SN60  | 50       |
| DISPERSION AGENT | 0,5      |
| ANTI COLLAPSE    | 0,3      |
| CALCITE          | 35       |
| CARBON BLACK     | 1,5      |
| SOLVENT          | 12,7     |

\*In paint formulation, resin solid rate is between 30-35% and paint solid ratio is between 65-70%.

#### PAINT AND VARNISH PROPERTIES

| TEST  | VARNISH  | PAINT    |
|---|----------|----------|
| Drying(minute,20-23°C)                      | 30       | 40       |
| Hard Drying(hour, 20-23°C)                  | >24      | >24      |
| Pot life ( hour, 20-23°C)                   | 4        | 5        |
| Gloss (60°, 20-23°C)                        | 89       | 78       |
| Pendulum Hardness (1-5 day/counts ,20-23°C) | 45p-143p | 75p-170p |
| *Yellowing Resistance (20-23°C)             | 3        | -        |
| *Cross Cut (GAL/AL/SHT)                     | 0\0\0    | 0\0\0    |
| *Impact Strength(5N/1000g( GAL/AL/SH)       | 1\1\1    | 1\1\1    |
| *Conical Bend Test (20-23°C) ( GAL/AL/SHT)  | 1\1\1    | 1\1\1    |
| **Abrasion Test(1000 cycle / 500 gr)        | 0,345    | 0,401    |

(\*)Marked areas are rated as 0 best and 5 worst.

Galvanized(Gal),Sheet(SHT),Aluminum(AL)

(\*\*) Taber Abrasion Test performed according to the mass method

TaberWear Index = $\frac{F_{Total} \times T}{n}$   $F_{Total} = A_{first} - B_{End}$  n= cycle T = mass loss at an average of 1000 cycle



Figure1. Aluminum surface impact test



Figure 2. Galvanized surface impact test



Figure 3. Sheet metal impact test

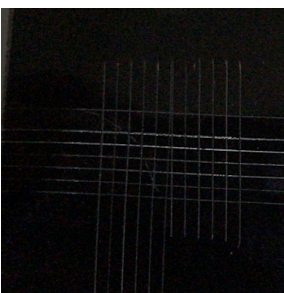


Figure 4. Aluminum surface adhesion test

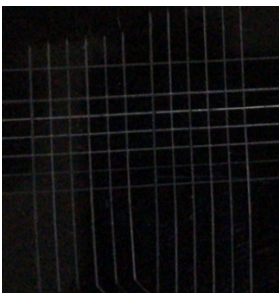


Figure 5. Galvanized surface adhesion test



Figure 6. Sheet metal surface adhesion test



Figure 7. Yellowing resistance

**Note:** Experiments were carried out under Izel Kimya laboratory conditions aimed to give information about the product features. Results may vary according to the user and application condition