



## APPLICATION

SYNTHETIC RESINS - PAINT AND VARNISH /Solvent Based

2 K ACRYLIC RESIN

### IZELCRYL 45XB70 4.5 %OH

#### STARTING PAINT FORMULATION

COMPONENT	AMOUNT %
IZELCRYL 45XB70	43
DISPERSION AGENT	0,5
ANTI COLLAPSE	0,3
CALCITE	35
CARBON BLACK	1,5
SOLVENT	19,7

\* 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)	45	60
Hard Drying(hour, 20-23°C)	>24	>24
Pot life( hour, 20-23°C)	>24	>24
Gloss(60°, 20-23°C)	84	85
Pendulum Hardness(1-5 day/counts ,20-23°C)	95p-298p	75p-288p
*Yellowing Resistance(20-23°C)	1	-
*Cross Cut(GAL/AL/SHT)	1\1\2	1\1\1
*Impact Strength(5N/1000g)( GAL/AL/SH)	3\3\4	2\3\3
*Conical Bend Test(20-23°C)(GAL/AL/SHT)	1\1\1	1\1\1
**Abrasion Test(1000 cycle/500 gr)	0,475	0,467

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

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

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

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

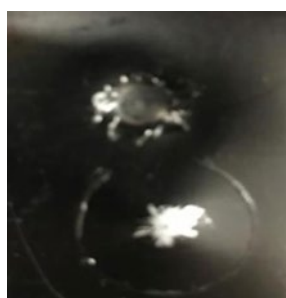


Figure 1. Aluminum surface impact test

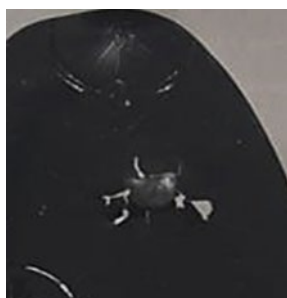


Figure 2. Galvanized surface impact test

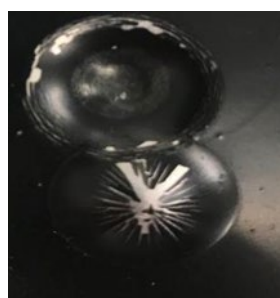


Figure 3. Sheet metal impact

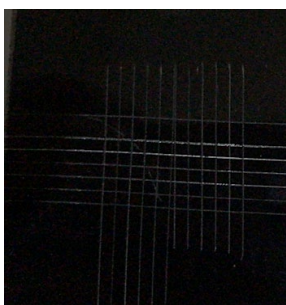


Figure 4. Aluminum surface adhesion test



Figure 5. Galvanized surface adhesion test

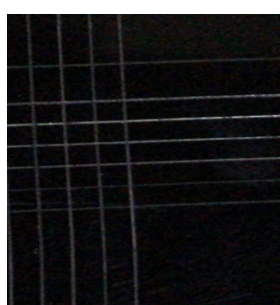


Figure 6. Sheet metal surface adhesion test

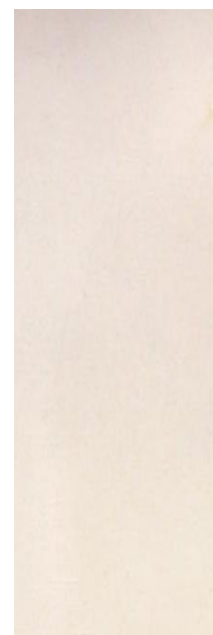


Figure 7. Yellowing resistance

**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