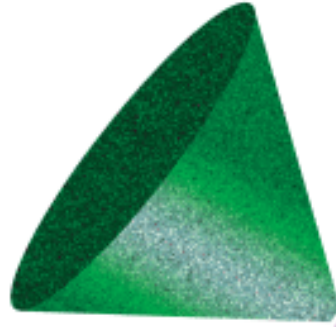


Introducing



magic

10

**ACRYLIC
RESIN SYSTEM**

EXCLUSIVELY FROM



corporation

Magic10[®]

Basic Information

Polyester and Acrylic based solid surface sheet goods have competed for years in the commercial and home countertop markets with one notable exception: *large manufacturers have sold acrylic based products and smaller manufacturers offered polyester based products.*

UNTIL NOW...

Safas Corporation proudly presents, Magic10[®] a 100% room-temperature cured acrylic system suitable for the casting of solid surface sheets, veneers, tables, counter tops, vanities and sinks, furniture elements and wall panels.

Safas has developed Magic10[®] as a cost effective acrylic resin system, but more importantly we have developed a promoter system that is most effective when used with commercially available catalysts.

- Magic10[®] has been formulated for use in batch and continuous processes using vacuum mixers.
- Magic10[®] consists of the resin, promoter, and impact modifier which are available directly from Safas (the catalyst is sold through your FRP distribution):
 - AW105-45 Bulk Polymerized Acrylic resin
 - AW-PMT Base promoter
 - SN-1000 Impact Modifier (specially formulated)*
 - AW-PMT-2 Secondary Promoter used with SN-1000 Impact Modifier

*(The impact modifier requires the addition of a small amount of a secondary promoter to keep gel time short and improve final product hardness).

Magic10[®]

Basic Information

The **Magic10[®]** Acrylic Resin System improves shortcomings of the currently available resin systems:

- High hardness
- Good high temperature resistance
- Excellent UV performance without expensive additive packages.
- Excellent formula flexibility
- Improved impact resistance
- Good water resistance

Solid Surface Solutions

- **Magic10[®]** methacrylate resin system is used as binders in the formulation of acrylic solid surfacing and cast polymer products.
- **Magic10[®]** resin system is engineered with these outstanding features for maximum productivity and highest quality:
 - Ambient or elevated temperature processing
 - Low viscosity for high filler loading
 - De-molding and finishing within one hour
- **Magic10[®]** provides brand new opportunities for:
 - Casting of acrylic sheets, sink bowls, vanities and accessories
 - Manufacturing of acrylic granules
 - Casting sheets using engineered quartz stone is possible

Safas Corporation works directly with industry partners to provide support to our customers on material selection, formulation, manufacture and casting fabrication techniques.

Magic10[®]

Technical Data Sheet

Typical Properties in a solid surface formula:

32-36% Resin, 15-18% Safas "A" Galaxy Granules, 46-60% ATH

PROPERTIES	RESULTS
Gel Time	Adjustable from 5-60 minutes
Casting Process	Easy
Blushing w/cured piece	No
Hardness (Barcol)	62—67
Impact Resistance	125—160 lbs.-ft
Thermal Shock Test	> 2,000 cycles—No blushing
Boiling Water Resistance	No Changing Effect
UV Resistance (Color Stability) ASTM G-53 (QUV Tester)	No Yellowing after 1,000 hour cycles
Thermoforming	Yes
High Temperature Resistance NEMA LD3 1985	No Lasting Effect

Magic10[®]

Product Properties

Appearance	AW-105 Resin	Liquid
	AW-PMT Promoter	Liquid
	SN-1000 IM	Liquid
	AWPMT-2 Promoter 2	Liquid
Solid		100%
Specific Gravity (75 °F/24°C)	AW-105	1.01
Viscosity (cps)	AW-105	150– 250
Flash Point (° F)	AW-105	50
Gel Time (min 1% AW-PMT, 0.11% AWPMT-2 + 2% Esperox 41-25) ³ Cure time (min, total time to reach peak temp) Peak Temperature		10—25 @ 77 (°F) 25—35 @ 77 (°F) 170—210 °F
Shelf Life (Unopened, original containers)	AW-105, AW-PMT, SN-1000, AWPMT-2,	> 6 months (<77° F)
Storage Conditions	AW-105	60 –90° F
	AW-PMT, SN-1000,	60-75° F
	AWPMT-2	

Magic10[®]

Comparison Data

PROPERTIES	Magic10 [®] (Safas)	Degament 1005 (Degussa)	Ultra Pearl (Lucite)
Gel Time	Adjustable from 5-60 minutes	30-45 min	Adjustable
Casting Process	Easy	Difficult to de-mold	Easy
Blushing w/cured piece	No	Noticeable	No
Hardness (Barcol) ASTM D2583	62—67	58—65	40—45 (low hardness)
Impact Resistance ASTM D3029 (Gardner)	125—160 lbs.-ft	60—100 lbs.-ft	70—100 lbs.-ft
Thermal Shock Test ANSI Z124.3	> 2,000 cycles—No blushing	Blushing after 500 cycles	No Data
Boiling Water Resistance	No Changing Effect	Some changes	No Data
UV Resistance (Color Stability) ASTM G-53 (QUV Tester)	No Yellowing after 1,000 hour cycles	Yellowing after 100 hour cycles	No Yellowing after 500 hour cycles
Thermoforming	Yes	No	Possible
High Temperature Resistance	No Lasting Effect	Noticeable Yellowing	No Data