



Versacol FA

Solar Reflective colorants

Versacol FA technical documentation, ed.2, 2017

Versacol® FA : solar reflective colorants

Ceac AG meets the challenges of keeping colored facades cool:

In order to create cool facade colors, Ceac AG has developed **Versacol® FA** solar reflective colorants and **Colorex Façade fandeck**. This “cool” Versacol FA system and appropriated color cards is an intelligent combination for façade paints and plasters to have optimum solar heat reflective properties.

Application: Versacol FA , solar reflective colorants are specially developed for water-based facade paints and plasters. They minimize heat build-up in architectural and decorative paint applications for facades, roofs, window frames and Exterior Insulation Finishing Systems. **Versacol FA** can be combined with **Colorex Façade fan deck** with all HBW light reflection values of shades . We recommend to use shades with HBW value bellow 30 .

Properties:The aim of solar-reflective Versacol FA colorant and Colorex façade fan deck is to maximize the solar reflectivity of the coated surface and give a turn-key system to our customers.

Technical Data Sheet

Versacol FA decorative exterior & facade **reflective colorants** for POS and In Plant Tinting systems

Codification :

FA = Organic & Inorganic pig for Ext. Facade, **solar reflective colorants**

References	Semi-Mass Tone	Application	Colour index	Density	Pigment Content - %	Weathering Fastness		% TSR	
						S-MT	1/25 SD	on white	on black
Oxi. Orange FA O16		Facade Inorganic Orange	PY216	1,91	65	5	5	66.5	46
Oxide Yellow FA Y42		Exterior & Facade Inorganic Yellow	PY42	1,69	62	5	5	52.5	33.6
Oxide Red FA R01		Exterior & Facade Inorganic Red	PR101	1,98	65	5	5	49.5	37.3
Oxide White FA W06		Titane dioxide	PW6	2,08	70	5	5	88	N A
Oxide Black FA B11		Exterior & Facade Inorganic Black	PBk11	1.40	50	5	5	17.9	4.1
Turquoise FA T36		Facade Inorganic Turquoise	PB36	1,56	62	5	5	48	30
Blue FA B28		Façade cobalt Blue	PB28	1,74	60	5	5	41	22
Red EX R68		Exterior & Facade Red	PR168	1,20	25	5	5	60	N A
Oxide Green FA G17		Exterior & Facade Inorganic Green	PG17	2,00	65	5	5	39.2	29.6
Violet FA V29		Exterior & Facade Inorganic violet	Inorg. mix	1,50	60	5-4	5-4	47.6	21.6
BiVa Yellow FA Y84		Facade Inorganic Yellow	PY184	1,83	54	5	5	77.5	47.5

CEAC AG recommends to use only Versacol FA colorants containing inorganic pigments in high alkaline environments . In exterior silicate , silicone-acrylic based products EX R68 is also suitable .

Test or Measurement: Total Solar Reflectance

Instrument: Device and Services, Solar Spectrum Reflectometer, Model SSR-ER

ASTM Reference: C1549 and E903-96

Tested at 1/3 SD : in transparent façade paint

%TSR measured over White and over Black

Key features Versacol FA solar reflective colorants

Main purpose of **Versacol FA** range of colorants is to cover the increasing demand for outstanding inorganic pigment for outdoor exposures .

This gives to our customers the possibility to reproduce High Durable colour formulae for exterior and façade application in new trend paint systems such as silicone , siloxane , silicate , High PVC and cement containing systems with specific Ceac colour cards such as Colorex Facade & Colour Harmony.

NB: The amount of total solar energy absorbed by a top coat determines the heat build-up of a coated surface and results in a surface temperature depending on the duration of exposure. To achieve cool facade surfaces, the pigments in the coating, need to reflect as much energy as possible. This reflection ability can be expressed as the Total Solar Reflectance (**TSR**) value (100% = total reflection: 0% = total absorption).

Therefore, pigments with high TSR values show a high reflection combined with low heat build-up, for this purpose in the database of shades for exterior and facade we have used optimum inorganic pigment & Organic selection to achieve optimum durability with « cool » shades .

Our CEAC unique concept of service propose you the most appropriated colorant selection combined with our **BCO Pro** software that can be used on any type of Tinting machines for POS but also for In Plant Tinting .

Concept « cool tinting system »

Colour cards

+

Versacol FA

+

Low maintenance machine



Versacol FA
Solar Reflective colorants

+ **BCO Pro soft with database**

