SYNOCURE®

TECHNICAL DATA SHEET

SYNOCURE® 895 S 55

Carboxyl acrylic NISO

PRODUCT APPLICATION DETAILS

SYNOCURE® 895 S 55 is a flexible acid functional acrylic resin for use with the epoxy copolymer curing agents SYNOCURE® 899 BA 60 or SYNOCURE® 899 BA 70 LM in isocyanate-free two pack coating systems.
Two pack coating systems based on blends of SYNOCURE® 890 S 55 and SYNOCURE® 895 S 55 are especially suitable for transport vehicles, agricultural equipment and high quality maintenance coatings.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	53 - 57 %	ISO 3251
Viscosity (25°C)	3000 - 4500 mPa.s	ISO 12058-1
Color	2 max Gardner	ISO 4630
Acid value	17 - 23 mg KOH/g	ISO 2114

OTHER CHARACTERISTICS[1]

	CHARACTERISTICS	METHODS
Solvent	Xylene/butyl acetate/aromatic solvent, boiling range 160°C - 180°C : iso-butanol (4:4:2.5:1)	-
Flash point	24 °C	ISO 3679
Density	0.98 g/ml	ISO 2811

[1]The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

MARKETS

Coatings & Inks

- Industrial Coating
  - General Industry
  - Protective And Marine Coating

PERFORMANCE BENEFITS

- Fast cure
- Excellent flexibility
- Good solvent resistance
- Very good exterior durability
- Low VOC possible

SYNOCURE® 895 S 55

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOCURE® 895 S 55 is a very flexible resin with superior impact resistance. However the resin would normally be used in combination with the harder acid functional resin SYNOCURE® 890 S 55 to impart a balance of hardness and flexibility. The resins are compatible in all proportions thus providing the opportunity to achieve a range of properties to meet a variety of end-uses.

SYNOCURE® 895 S 55 can be cured with SYNOCURE® 899 BA 60 but use of the higher solids hardener SYNOCURE® 899 BA 70 LM allows VOC reductions of up to 50 g/l to made at application viscosity.
SYNOCURE® acid functional acrylic resins are cured with the SYNOCURE® 899 series epoxy curing agents. The recommended mixing ratios are:
- as supplied: SYNOCURE® 895 S 55/SYNOCURE® 899 BA 70 LM or SYNOCURE® 899 BA 60 = 100/26 or 100/30
- on solid resin: SYNOCURE® 895 S 55/SYNOCURE® 899 BA 70 LM or SYNOCURE® 899 BA 60 = 3/1 or 3/1

Minor deviations from this ratio will have little effect on film performance although it is preferable that paint formulations are based on the recommended ratio to maintain optimum performance.
Further information on use may be found in the brochure 'Non-Isocyanate Acrylic resins for 2K Coatings' available from Arkema Coating Resins.

This isocyanate-free system is suitable for use with a wide range of both organic and inorganic pigments. However, as with other reactive two component systems there are rare instances of reaction between the resins and certain pigments to give unacceptable colour changes on curing. It is therefore strongly recommended that all pigments are checked for stability with the system before commercialisation.

SOLUBILITY

Most suitable solvents for SYNOCURE® 895 S 55 are aromatic hydrocarbons such as xylene, together with minor proportions of alcohols and esters.

OTHER ADDITIVES

Where UV absorbers may be required, as in clear varnish applications, then conventional UV absorbers such as the benzotriazole types are not recommended as they can cause discoloration of the clear varnish.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOCURE® 895 S 55 should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 30°C. Exposure to direct sunlight should be avoided.
In the above mentioned storage conditions the shelf life of the resin will be from the shipping date.

Headquarter: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80