

COATING RESINS

TECHNICAL DATA

CRAYAMID 195X 60

SALES SPECIFICATION

Non-volatile content, % @ 150°C (ISO 3251)	58 - 62
Viscosity in CPS at 25°C	3000 - 6000
Colour, Gardner scale (ISO 4630)	≤ 11
Acid value, mg KOH/g (ISO 3682)	NA
Amine value, mg KOH/g (Perchloric Acid Method)	240 – 270

OTHER PROPERTIES

Volatile	Xylene
Flash point, °c (Iso3679)	24 (Typical)
Density at 20°c	0.95
Typical hydrogen Equivalent Weight	240

Note: Amine Value relative to solid resin

PRODUCT INFORMATION :

CRAYAMID 195X is a general purpose liquid amino polyamide resin supplied at 60% solid content in xylene. It is used in conjunction with suitable epoxy resins to produce both top coats and primers for wide variety of substrates. A unique characteristics of this product is it's excellent compatibility with liquid epoxy resins making it particularly suitable in the formulation of defect free low VOC coating systems without the need for lengthy induction periods. Coating based on CMD 195X have extremely fast surface dry, excellent resistance properties and adhesion to metallic substrates which makes them useful in marine and heavy duty industrial coatings. It is compatible with many synthetic resins, varnishes , oils and other media.

RECOMMENDATIONS FOR USE :

Paints based on **CRAYAMID 195X** have considerably faster surface drying times than those based on conventional polyamides or their adducts, and do not require any induction period. The fast set-up time of coatings based on **CRAYAMID195X** reduces the risk of hardner migrating when curing at low temperature. Consequently Film defects such as greasiness will be totally eliminated.

CRAYAMID 195X is compatible with both solid and liquid epoxide resins, thereby giving greater blend of flexibility and hardness in paint formulation. Fast surface curing , in conjunction with improved epoxide resin compatibility, gives improved performance when cure takes place under adverse conditions such as high humidity.

Whilst the mix ratio when using **CRAYAMID** polyamides is not critical, optimum performance of a coating is achieved by stoichiometric mixing of the epoxy and **CRAYAMID195X**. The mix. ratio is calculated from the active Hydrogen equivalent weight (AHEW)since each epoxy group in the base resin will react with one active hydrogen present in the polyamide.

The AHEW of **CRAYAMID195X** is typically 240 on solid resin. Considering that each epoxy reacts with one reactive hydrogen, the mix ratio of **CRAYAMID195X** and an epoxy resin with epoxide equivalent approx.500 ⁽¹⁾ is calculated as follows ;

Resin	Mass of solid Resin	Mass of Resin Solution
CRAYAMID195X	240g	400g
75% Epoxy resin 1	500g	667g

The resulting epoxy : polyamide mix ratio in this case is approx. 65 :35 based on solid resin. In a similar manner the epoxy : **CRAYAMID 195X** for an epoxy resin with an epoxide equivalent of 200 ² will be approx. 45 :55 on solid resin. Excess polyamide in a coating will impart flexibility and adhesion at the expense of solvent resistance.

NOTES:

1. Epoxy resins epoxide equivalent approx. 500
Araldite 6100 - Cieba Geigy limited.
2. Unmodified epoxy resin epoxide equivalent 200
Epikote 828 - shell Chemicals.
3. Modified epoxy resins epoxide equivalent approx. 200
Epikote 915 - Shell Chemicals

