

Acrodur[®] Plus 2580

Chemical Nature

Colorless aqueous solution thermosetting resin of a modified polycarboxylic acid and a polyol.

Properties

Typical Properties

Appearance	Colorless to slightly yellowish, clear to slightly turbid
Solids content	% ~ 59
pH value (@ 10% conc)	~ 4
Viscosity	mPa-s ~ 800

Further properties of the dispersion

Density	g/cm ³	ca. 1.25
Dispersion type		anionic
Miscibility with water		Miscible in all proportions

Properties of the film

Appearance	colorless
Flexible	rigid
Surface	tack-free

* These typical values should not be interpreted as specifications.

Application

Features

Acrodur Plus 2580 can be applied onto fibers, filaments, yarns or fibrous goods (nonwovens, wool mats, woven fabrics) by common spraying, curtain coating or roller coating tools, or by any equipment usable for “wet” or “foam” impregnation (as e.g. foulards). According to specific processing and/or product requirements (e.g. with regards to binder uptake/content, viscosity, etc.), Acrodur Plus 2580 can be applied at its original concentration (ca. 59 % s.c.), or can be easily diluted with water to any specific application concentration, since Acrodur Plus 2580 is miscible with water in any ratio.

Processing

After its application, Acrodur Plus 2580 can be thermally cross-linked (“cured”) by subsequent drying/heating process, using common “hot air flow” or “drum” dryers. After evaporation of water, temperatures above 150°C up to 200°C should be applied for a certain time (several seconds to minutes) to achieve proper cross-linking (optimal conditions are depending on processing speed, binder content, substrate type, etc.). Cross-linking of Acrodur Plus 2580 is retarded or even hindered, if pH value is adjusted above 5 or even higher, e.g. if non-volatile bases (e.g. caustic soda or similar) are added to the binder recipe.

Formulation recommendations

Acrodur Plus 2580 can be mixed with selected polymer dispersions in order to adjust certain binder properties, e.g. to increase flexibility, hydrophobicity, etc. The blending compatibility of a specific dispersion and its possible influence on the cross-linking of Acrodur Plus 2580 has to be checked carefully in advance.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Acrodur Plus 2580.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

Important

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BASF Corporation
Dispersions and Resins
11501 Steele Creek Road
Charlotte, North Carolina 28273
Phone: (800) 251 – 0612
Email: CustCare-Charlotte@basf.com
www.basf.us/dpsolutions