

Acrodur[®] DS 3558

Chemical Nature	Aqueous dispersion of a styrene-acrylic polymer modified with a polycarboxylic acid ar polycarboxylic acid ar polyol as crosslinking component.	าd a
	Properties	
Typical Properties	Solid Content % 49 – 51 (DIN EN ISO 3251)	
	pH 3.0 – 4.0 (DIN ISO 976 at 23 °C)	
	Viscosity mPa s 300 – 800 (DIN EN ISO 3219 (23 °C, 100 1/s)	
	*The values above should not be taken as specification.	
	Application	
Features	Acrodur DS 3558 is employed as a formaldehyde-free binder for wood fibers and vast fibers a as hemp, flax, sisal and jute, etc. It can be used to bond mineral fibers such as glass wool and wool and synthetic fibers such as nylon and polyester. It can also be used as binder for cork or and finely divided inorganic substances such as sand and abrasives.	rock
Processing	Acrodur DS 3558 can be applied at its original concentration or it can be diluted in advance. It be applied to substrates by spraying, curtain coating or roll coating.	t can
	Acrodur DS 3558 crosslinks at a temperature of approximately 130 \Box C. Production processes be speeded up by increasing the curing temperature to 180 – 200 \Box C, because the higher de of crosslinking ensures that the substrate has optimum water resistance and heat resistance.	
	Neutralizing Acrodur DS 3558 with bases such as caustic soda impairs the crosslinking reac especially if the pH is >5.	ction,
	In order for the maximum possible strength to be obtained, it is recommended that substr impregnated with Acrodur DS 3558 contain a small amount of residual moisture at the beginnin the curing process when they are cured in a heated press or oven. The ideal moisture cor depends on the type of substrate and the type of equipment that is used. Trails need to be perfor in order to determine the optimum moisture content and the amount of binder that needs to applied.	ng of ntent rmed
	Various additives can be used in combination with Acrodur DS 3558 in order to obtain spe features. For instance, aminosilanes can be added to improve the adhesion of the binde inorganic fibers. Reactive substances such as polyfunctional epoxy resin, phenolformalde resins, isocycanates or melamine resins can be added to increase the reactivity of the binder a temperatures. Acrodur DS 3558 can also be missed with other polymer dispersions in order modify its mechanical properties and its water absorption, etc.	er on ehye it low
	Additives such as surfactants (e.g., Lumiten [®] I-SC), defoamers and water repellents (Basophob [®] WDS) can be used to adjust the performance of Acrodur DS 3558.	(e.g.,

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 DS 3558.

Important

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