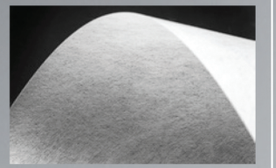
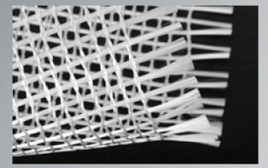
Glass fibers

Nonwovens and fabrics based on glass fibers or yarns are widely used in construction applications. Those substrates serve as support layers, as facings and coverings, or as reinforcements. Depending on application and processing requirements, our tailor-made binders ensure that the substrate provides sufficient mechanical performance and attains special resistance to heat, water, solvents or environmental stress.



Glass fiber nonwovens

Glass fiber nonwovens are used as support layers for vinyl and carpet flooring tiles or for bituminous roofings. Further applications include robust wall coverings and facing layers for mineral wool mats, construction boards or fiber-reinforced plastic parts.



Glass yarn fabrics

Glass yarn fabrics are used as patterned wovens for high-quality wall coverings or as laid or woven meshes for various reinforcing purposes as, e.g. within ETICS applications.

Product name	Tg [°C]	Solids [%]	pH value	Viscosity [mPa·s]	Low VOC	FA free*	Self x-linking	Product key properties for respective application
Polymer dispersions								
Acronal® A 420 S	-12	50	~ 5	~ 65	■		■	Hydrophobic, water resistant
Acronal® S 559	-1	50	~ 7	~ 250	■	■		Hydrophilic, "flexibilizer" for Acrodur resins
Acronal® S 589	+2	52	~ 7.5	~ 190	■	■		Hydrophilic, for glass wall coverings
Acronal® S 560	+3	50	~ 8	~ 110	■	■		Hydrophobic, for glass wall coverings
Styrofan® Pure 2588	+7	50	~ 7	~ 250	■	■		Alkaline resistant, for glass meshes
Acronal® S 720	+18	50	~ 8.5	~ 1,100	■	■		Hydrophobic, for glass wall coverings
Acronal® 280 KD	+20	40	~ 3	~ 300		■		Cationic, "flexibilizer" for amino resins
Acronal® Plus 2483	+26	50	~ 8	~ 180	■	■		Hydrophobic, very water and alkaline resistant
Acronal® LN 838 S	+31	51	~ 6	~ 40	■		■	Heat and (unpolar) solvent resistant
Acronal® Pure 2416	+38	50	~ 4.5	~ 60	■	■	■	Heat and water resistant
Acronal® S 980 S	+44	45	~ 8	~ 70	■		■	Anionic, "flexibilizer" for amino resins
Acrylic resins								
Acrodur® 950 L	----	50	~ 3	~ 1,300**	■	■	■	Very heat and (unpolar) solvent/oil resistant
Acrodur® Plus 2580	----	59	~ 4	~ 800**	■	■	■	Very heat resistant, high solids content, low yellowing
Acrodur® DS 3530	----	50	~ 3	~ 250**	■	■	■	Very heat resistant, medium viscosity
Acrodur® 2444	----	54	~ 3	~ 100**	■	■	■	Heat resistant, low viscosity, low yellowing

* Formaldehyde not intentionally added. Product may comprise minor traces, as ubiquitously occuring impurities cannot be excluded / **different test method used: ISO 2555 (= Brookfield viscosity) / Tg = Glass transition temperature / Solids [%] = solid content in percent / VOC = Volatile organic compounds / FA = Formaldehyde / Viscosity acc. to ISO 3219 / Low VOC = VOC acc. to 2004/42/EC < 1,000 ppm / x-linking = crosslinking