Mounting adhesive, polyester-acrylic based

Basis: unsaturated polyester resin with acrylic monomers

RRS 2203		Control with standard- filler	AKTISIL VM 56
UP / Acrylic resin		50	50
Standard filler		45	35
AKTISIL VM 56	(1)	---	10
Peroxide		5	5
Total parts by weight		100	100

Properties

tested bonding: steel to ceramics			
Lap shear strength	N/mm²	14-15	18-20
Enhancement lap shear strength	%	---	+31

Recommendation

AKTISIL VM 56: improved strength properties, covalent bond with the polymer

Not tested, however recommended as well:

SILLITIN V 85: standard product, balanced price/performance ratio

AKTIFIT VM: same as Aktisil VM 56, but hydrophobic, improved dispersion, highest brightness and color neutrality

AKTIFIT PF 111: same as Aktifit VM, but higher rheological activity

AKTISIL MAM: lower viscosity, higher polarity and reactivity through methacrylic groups

AKTIFIT Q: same as Aktifit VM, but higher polarity and reactivity through methacrylic groups

Suppliers

(1) HOFFMANN MINERAL

More information on this topic is available in this technical report:

Neuburg Siliceous Earth in CR (polychloroprene) and UP (unsaturated polyester resin) adhesives

HOFFMANN MINERAL GmbH • P. O. Box 14 60 • D-86619 Neuburg (Donau) • Phone (+49 84 31) 53-0 • Fax (+49 84 31) 53-3 30
Internet: www.hoffmann-mineral.com • e-Mail: info@hoffmann-mineral.com