TechnicalInformation		
June2004(DFC) Page1of3	3	
SupersedeseditiondateMay2003		
	-	The Chemical Compa
®= Registeredtrademarkof BASFAktiengesellschaft	Acronal®TS	456
	Acronal [®] TS456ismainlyusedtomo factureflexiblecoatings.	difyhydraulicbinders andt
Chemicalnature	Aqueous,anionicdispersionofacopolym freeofplasticizers.	erofstyre neandanacrylicester
	Properties	
Productspecification	Solidcontent(DINENISO3251,T.2-D) Viscosityat23℃(ISO3219), 1 shearrate250s	% 57±1 mPa ·s 140-200
	PH(ISO976)	7.0-8.5
	Theaforementioneddatashallconstituethe productatthetimeofpassingofrisk.Thedata partofourqualityassuranceprogram.Neith productspecimensshallimplyanylegallybin offitnessforaspecificpurpose. Noliabilityofourscanbederivedtherefrom.	eagreed contractualqualityofthe econtrolledatregularinterval erthes edatanorthepropertiesof ndingg uaranteeofcertainproperti
Otherpropertiesofthedispersion	Apparentviscosityat23℃ (ISO2555,BrookfieldRVT, Spindle3,100rpm)	mPa·s 300-700
	Densityat20℃(ISO8962) Averageparticlesize Minimumfilm-formingtemperature	g/cm³ approx.1. µm approx.0. ℃ <1
	(ISO2115) Low-temperaturestability	Notresista frost
Filmproperties	Densityat20℃ (ISO1183,DIN53479) GlasstransitiontemperatureTg(DSC) Elongationatbreak* Tensilestrength Surface	g/cm ³ approx1.08 °C approx 6 % >2500 N/mm ² approx.1.2 Tacky
		% 5–10
	Waterabsorptionatter24himmersion (ISO62,DIN53495) Appearance	Clear, transparent

Application

	Acronal®TS456ismainlyusedtomodifyhydraulicbinders, especially cementmixtures.ltcontainsasoftpolymer,which flexiblemineral-basedproductssuchassealantcom floorsealants,anti-corrosioncoatingsforreinfor products.Trialsmustbeperformedinadvancefore application,becausetheperformanceofAcronal alargeextentbythetypeofhydraulicbinderinvo Acronal®TS456canalsobeemployedinflexibletwo-compon sealants.
Processing	Noplasticizersusuallyneedtobeadded,becauseA lowminimumfilm-formingtemperatureandalowglas butPlastilit [®] 3060canbeusedasaplasticizerinexceptionalc thestrengthofcementitiousproductsformulatedwicronal [®] TS456hasa stransitiontemperature, workabilityandlower thAcronal [®] TS456.
	Italsohastobepointedoutthatthatmanyofthe thickenersthatare frequentlyemployedincementitiousproductsformul atedwith Acronal®TS456cancausethemtostiffenandcaninterfere inthesetting process,andtheycanhaveaverydetrimentaleffec oftheseproductsaftertheyhaveset.Noammoniai ofAcronal ®TS456,andnounpleasantodourisgeneratedwhen cementitiousproductsaresetting.Everyeffortsho uldthereforebemade touseonlyammonia-freeproductsinformulations.
	Customershavetocarryouttheirowntrialswhend evelopingandprocessing productsbasedonAcronal [®] TS456.Thecompatibilityandmiscibility ofAcronal [®] TS456withotheringredientsofformulations,its effects onthesettingofhydraulicbindersanditsadhesio etc.,areaffectedbyavarietyoffactorswhichar forustotakeintoaccountinourowntrials.This stabilityofitsviscositywhenitisstoredattem peraturesofca.50°C.
	Safety
General	Theusualsafetyprecautionswhenhandlingchemical smustbeobserved. Inparticular,theplaceofworkmustbewellventi latediflargequantities arebeingprocessed,theskinshouldbeprotected, andsafetyglasses shouldbewornatalltimes.
SafetyDataSheet	ASafetyDataSheethasbeencompiledforAcronal [®] TS456thatcontains up-to-dateinformationonallquestionsrelevantto safety.
Labelling	Accordingtoallthedataatourdisposal,Acronal [®] TS456doesnotneedtobe labelledasadangeroussubstanceorpreparationas definedintherelevant EuropeanUniondirectives(substancesdirective196 7/548/ECandpreparations directive1999/45/EC)accordingtotheircurrentst atus.

Storage

Acronal®TS456hasashelflifeofsixmonthsat10–30° C,providedthat carefulattentionispaidtothehygieneofstorage facilities.Wewould recommendtreatingAcronal ®TS456withabiocideinordertoprevent problemswithmicroorganismsfromoccurring.Furthe rdetailsaregivenin ourleafleton"Thehandlingandstorageofpolymer dispersions".

Thisproductmustnotbeallowedtocomeintoconta copperanditsalloysduringstorage.

ctwithbareironor

Note

Theinformationsubmittedinthispublicationisba experience.Inviewofthemanyfactorsthatmayaf thesedatadonotrelieveprocessorsoftherespons testsandexperiments;neitherdotheyimplyanyle certainpropertiesorofsuitabilityforaspecific pur thosetowhomwesupplyourproductstoensurethat existinglawsandlegislationareobserved. June2004

sedonourcurrentknowledgeand fectprocessingandapplication, s ibilityofcarryingouttheirown gallybindingassuranceof purpose.ltistheresponsibilityof at anyproprietaryrightsand

BASFTürkKimyaSanayiveTic.Ltd.

ti.

Sales&Marketing DefterdarYoku uNo:3 Tophane–Karaköy 34425Istanbul,Turkey

Production Dilovası 41455Kocaeli,Turkey

