

AC-20-5TR Product Data Sheet



Description

AC-20-5TR is a tire rubber modified, hot applied asphalt designed for use as a bituminous binder for chip seals. AC-20-5TR is supplied in bulk.

Recommended Use

AC-20-5TR should be applied with well-calibrated distributors. The distributor nozzles and spray bar should be sized and set to deliver the desired shot rate. The shot rate should be determined by a laboratory chip seal design with the project aggregate and the conditions of the existing pavement. The air and pavement temperatures should be sufficiently high to allow the binder to cure. Item 316 of the TxDOT Standard Specifications requires that seal coats and surface treatments be placed when the air temperature is above 50°F and rising. AC-20-5TR should not be applied when the air temperature is below 60°F and falling. TxDOT further states that no asphalt binders should be applied during rain or imminent threat of rain. If an unexpected shower arises during operations, the asphalt distributor should be shut off immediately and placement of aggregate continued until all asphalt has been covered. This area should be rolled well and watched carefully after opening to traffic. After a rain, operations should always be suspended until the pavement has completely dried.

Physical Properties

Conforms to Texas Department of Transportation Specifications-Item 300.2:

Property	Test Procedure	Min	Max
Polymer		TR	
Polymer content, % (solids basis)	Tex-533-C	5.0	-
Dynamic shear, $G^*/\sin \delta$, 64°C, 10 rad/s, kPa	T 315	1.0	-
Viscosity			
140°F, poise	T 202	2,000	-
275°F, poise	T 202	-	10.0
Penetration, 77°F, 100 g, 5 sec.	T 49	75	115
Elastic recovery, 50°F, %	Tex-539-C	55	-
Softening point, °F	T 53	120	-
Polymer separation, 48 hr.	Tex-540-C	None	
Flash point, C.O.C., °F	T 48	425	-
Tests on residue from Thin-Film Oven Test:	T 179		
Retained penetration ratio, 77°F	T 49	0.60	1.00
Tests on residue from RTFOT aging and pressure aging:	Tex-541-C and R 28		
Creep stiffness	T 313		
S, -18°C, MPa		-	300
m-value, -18°C		0.300	-

Storage and Handling

Before being filled, tanks and trucks should be examined for possible contaminants. Recommended use and storage temperatures are given in the table.

Recommended Temperatures	Min	Max
Storage		360°F
Application	300°F	375°F

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