

TPH

Product Information

TPH is a concentrated mix of alkyl-amidoamines and polyethylene amines used as an adhesive agent for hot binders to ensure a better bitumen/aggregate bond.

Storage & Handling (refer to Chemoran guide)

TPH must be protected from exposure to water and to long-term exposure to atmospheric moisture. When mixed with water, a chemical reaction can occur which may lead to a reduction in the performance of the additive. Water may also flash/splash when added to the hot bitumen. Atmospheric moisture contamination takes place slowly on the additive surface exposed to moist air. When in use, protect from rain and seal tightly when not in use. Do not leave small amounts in containers for long periods before using it. Inspect the storage container and all seals for damage or leaks.

Formulation Example (refer to CST Technical Note N°102)

Application	TPH Dosage
Pure bitumen for hot mix asphalt	≥ 3 kg/t
Polymer modified bitumen for hot mix asphalt	≥ 3 kg/t
Fluxed bitumen for surface dressing	≥ 4 kg/t ± 1

TPH is Chemoran's premium bitumen adhesive agent, designed to give storage stability in the hot bitumen. Once added to the bitumen, TPH will remain active in the stored bitumen for up to three days.

Table of Parameters

Characteristics	Methods	Specification	Typical Values
Physical state at 20°C	Visual test	Liquid	-
Alkalinity index (mgHCl/g)	MOPCST PC-006	>250	305
Flash point, closed cup (°C)	EN 22719	>200	-
Cloud point	CHEM 003	-	<0°C

TPH must be protected from frost. Continued cold weather storage can lead to major increase in the viscosity of the TPH. This can lead to difficulties in pumping the additive.

Also some precipitation may take place at low temperatures. If this occurs the additive should be heated or agitated thoroughly to insure a homogeneous mixture before use.

Packing

Drum of 190kg / IBC of 940kg

Temp.	Density	Viscosity
°C	(g/cm ³)	(mPa.s)
10	0.979	1900
20	0.97	760
30	0.961	358
40	0.953	178
50	0.946	93