



THE CHEMICAL DIVISION OF COLAS

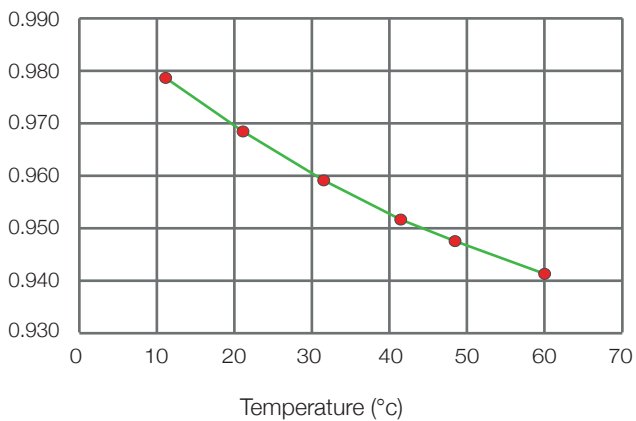
TPH



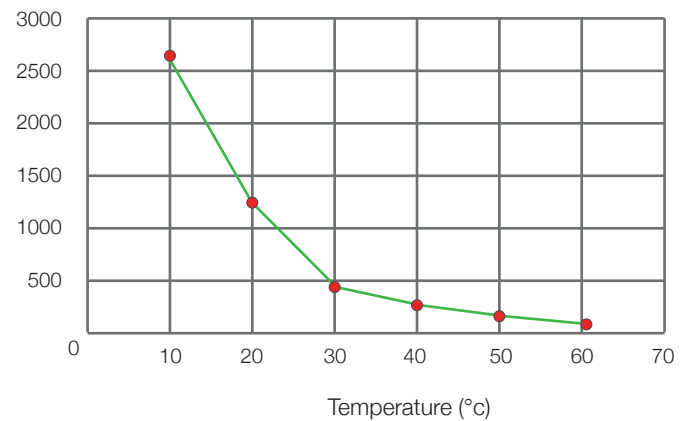
TPH is a concentrated mix of alkyl-amidoamines and polyethylene amines used as an adhesive agent for hot binders to ensure a better bitumen/aggregate bond.

CHARACTERISTICS	METHODS	SPECIFICATIONS	TYPICAL VALUES
Physical state at 20°C	Visual test	Liquid	-
Alkalinity index (mg HCl/g)	MOPCST PC-006	>250	295
Density at 20°C (g/cm ³)	CHEM 004	0.97 ± 0,05	-
Flash point, closed cup (°C)	EN 22719	>200	230
Viscosity at 25°C (mPa.s)	MOPCST PC-029	-	800
Cloud point	CHEM 003	-	< 0°C

DENSITY TPH (g/cm³)



VISCOSITY TPH (mPa.s)



FORMULATION EXAMPLES (refer to CST Technical Note N°102)

Application	Pure bitumen for hot mix asphalt	Polymer modified bitumen for hot mix asphalt	Fluxed bitumen for surface dressing
TPH dosage	≥ 3 Kg/t	≥ 3 Kg/t	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.

STORAGE AND HANDLING CONDITIONS (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.

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 200Kg / IBC of 1000Kg