LIST OF ABBREVIATIONS

AAPA Australian Asphalt Pavement Association
AAPT Association of Asphalt Paving Technologists

ABET Adult Basic Education and Training

ACTLA Acceptance Criteria for Thin Layer Asphalt

ACGIH American College of Government Industrial Hygienists

AI Asphalt Institute

AITB Association of Industry Training Boards

APT Accelerated Pavement Testing
ARI Asphalt Reinforcement Interlayers
ARPG Asphalt Rubber Producers Group
ARRB Australian Road Research Board

ASANRA Association of South African National Road Agencies
ASGISA Accelerated and Shared Growth Initiative for South Africa
ASPASA Aggregate and Sand Producers Association of South Africa

ASA Agrément South Africa AsAc Asphalt Academy ATC Asphalt Testers Course

BAT Best Available Technology BBA British Board of Agrèment

BCA The New Zealand Bitumen Contractors' Association

BCC Black Contractors Council
BEE Black Economic Empowerment

BCAWU Building Construction and Allied Workers Union

BitSafe Bitumen Safety Course

BMLC Bituminous Materials Liaison Committee (absorbed into the

RPF)

BMOS Bituminous Materials on Site (course)

BOT Build Operate Transfer

BPAF Bitumen Price Adjustment Factor

BPI Bitumen Price Index
BRD Bulk Relative Density
BS British Standards

CapCoR Capacity Coordination for Roads

CAPSA Conference on Asphalt Pavements for Southern Africa

CAWU Construction and Allied Workers Union

CBA Cost benefit analysis
CBP Concrete Block Paving

C&CI Cement and Concrete Institute
CEAC Civil Engineering Advisory Council

CEF Central Energy Fund

CEITS Civil Engineering Industry Training Scheme

CEN European Commission for Standardisation (English)
CETA Construction Education and Training Authority
CIDB Construction Industry Development Board
CIDB Construction Industry Development Board

CMA Cement Marketers' Association

CMM Construction Material Manufacturers
CMTC COTO Materials Testing Committee

CoC Code of Conduct

COCOSA Council for Construction in South Africa

CoD Centre of Development

COLTO Commission of Land Transport Officials COSATU Congress of South African Trade Unions

COSHEC Centre for Occupational Safety and Health and Environmental

Conservation

CoT City of Tshwane

COTO Committee of Transport Officials

CPEE Centre for Pavement Engineering Education
CSIR Council for Scientific and Industrial Research

DACST Department of Arts, Culture, Science and Technology
DEAT Department of Environmental Affairs and Tourism
DPLG Department of Provincial and Local Government

DOL Department of Labour
DOT Department of Transport

DSD Dangerous Substances Directive
DTI Department of Trade and Industry

DWAF Department of Water Affairs and Forestry

EAPA European Asphalt Pavement Association ECSA Engineering Council of South Africa

EEA Employment Equity Act

EHS Environment, Health and Safety
EIA Environmental Impact Assessment

EINECS European Inventory of Existing Commercial Chemical

Substances

EME Enrobé à Module Élevé

EPWP Expanded Public Works Programme

ERD Effective Relative Density

ERTRAC European Road Transport Research Advisory Council

ESAL Equivalent standard axles
ETB Education and Training Board
ETBs Emulsion Treated Bases

ETQA Education and Training Quality Assurers
E&EC Eurasphalt & Eurobitume Congress

FET Further Education and Training FHWA Federal Highway Administration

FIDIC The International Federation of Consulting Engineers

FRD Foundation for Research Development FROM Finance Rehabilitate Operate & Maintain

GFIP/S Gauteng Freeway Improvement Project/Scheme

GPTRW Gauteng Department of Public Transport Roads and Works
GSAAPA Global Strategic Alliance of Asphalt Pavement Associations

GSB Graduate School of Business

HAPAS Highway Authorities Product Approval Scheme

HDM Highway Design Model

HET Higher Education and Training

HiMA High Modulus Asphalt HMA Hot-Mix Asphalt

HMAC High Modulus Asphalt Concrete HSE Health Safety and Environment

HSEQ Health Safety Environment and Quality

HVS Heavy Vehicle Simulator

IARC International Agency for Research into Cancer IBEF International Bitumen Emulsion Federation

IAT Institute of Asphalt Technology

ICAP International Conference on Asphalt Pavements

IDP Integrated Development Plans

IGHMA Interim Guidelines for the design of Hot Mix Asphalt in SA

ILO International Labour Organisation

IMESA Institution of Municipal Engineers of Southern Africa

IMPS Industry Market Performance Statement

IRI International Rideability Index IRF International Road Federation IRI International Roughness Index

ISAP International Society for Asphalt Pavements

ISO International Standards Organisation

ITS Indirect Tensile Strength

ITT Institute for Transport Technology

JIPSA Joint Initiative for Priority Skills Acquisition JRCA Japanese Road Contractors Association

JV Joint Venture

LAMBS Large Aggregate Mixes for Bases LAP Load Accreditation Programme

LCEP Local Councillor Empowerment Programme

LTD Low Temperature Ductility

LTPP Long Term Pavement Performance
LUMS Land Use Management Surveys

MIG Municipal Infrastructure Grant
MMLS Mini Mobile Loading Simulator
MOA Memorandum of Agreement

MR Modulus Resilience

MTC Materials Testing Committee

MTEF Medium Term Expenditure Framework
MTRD Maximum Theoretical Relative Density

MSDS Material Safety Data Sheet

NABCAT National Association of Black Contractors and Traders

NACTU National Council of Trade Unions

NAFCOC National African Federation Chamber of Commerce NAPA National Asphalt Pavement Association (USA) NCAT National Center for Asphalt Technology

NDoT National Department of Transport

NEDLAC National Economic Development and Labour Council

NEPAD New Economic Policy for Africa Development

NGO Non-Government Organisation

NIOSH National Institute for Occupational Safety and Health NPASR National Proficiency Assessment Service for Roads

NPO Non-Profit Organisation

NQF National Qualification Framework
NQS National Qualification System
NRSC National Road Safety Council
NSA National Skills Authority
NSB National Standards Body

NZBCA New Zealand Bitumen Contractors Association

OGA Open Graded Asphalt

OHS Occupational Health and Safety Act
OVA Opportunity Value Assessment

PAH Polycyclic Aromatic Hydrocarbon PBO Public Benefit Organisation

PDPDG Public Driving Permit for Dangerous Goods

PIARC Permanent International Association of Road Congresses

PFMA Public Finances Management Act
PMS Pavement Management Systems
PPE Personal Protective Equipment

PPGS Product Performance Guarantee Systems

PPP Public Private Partnerships

PRAC Pavement Research Advisory Committee

PSV Polished Stone Value

QMS Quality Management Systems

RAL Roads Agency Limpopo RA Reclaimed Asphalt

RBA The Refined Bitumen Association RBAC Road Base Asphalt Concrete

RECOB Road Engineering Coordinating Body

RFA Road Freight Association

RISFSA Road Infrastructure Strategic Framework for South Africa

RIRAC Road Infrastructure Research Advisory Council

RMC Ready Mix Concrete
RPF Road Pavements Forum
RPP Recognition of prior learning
RTFOT Rolling Thin Film Oven Test

SAACE South African Association of Consulting Engineers

SABS South African Bureau for Standards

SACOB South African Chamber of Business

SADC Southern African Development Community

SAFCEC South African Federation of Civil Engineering Contractors

SAFCOC South African Federated Chamber of Commerce SAHMA South African Hot Mix Asphalt (Design Code) SAICE South African Institute of Civil Engineers SALGA SA Local Government Association

SANAS South African National Accreditation System
SANCU South African National Consumer Union
SANRAL South African National Roads Agency Limited

SANS South African National Standards

SAPDM South African Pavement Design Project

SAPEM South African Pavement Engineering Materials SAPIA South African Petroleum Industry Association

SAQA South African Qualifications Authority

SARF South African Road Federation

SARMA South African Ready Mix Manufacturers Association

SAWIC South African Women In Construction

SAT Society for Asphalt Technology

SDA Skills Development Act

SERA Southern Education and Research Alliance SETA Sector Education and Training Authority

SETO Sector Education and Training Organisation (eg. CEITS)

SGB Standards Generating Body
SHE Safety, Health and Environment

SHERQ Safety, Health, Environmental, Risk and Quality

SHRP Strategic Highway Research Program

SIDAP Sabita Infrastructure Development Assessment Project

SMA Stone Mastic Asphalt

SSDAG Sabita Skills Development Advisory Group

SSP Sector Skills Plan STB State Tender Board

TEI Tertiary Educational Institutions
TFC Thin (Asphalt) Friction Courses

TG Technical Guideline

THRIP Technology Human Resources for Industry Programme

TLA Thin Layer Asphalt

TMH Technical Methods for Highways

TRH Technical Recommendations for Highways

TRL Transport Research Laboratory

TRIP Technical Recommendations in Practice

TSR Tensile Strength Ratio

URRUD Urban Renewal and Rural Development

UTFC Ultra Thin Friction Courses
UTHS Ultra Thin High Strength
UTLA Ultra Thin Layer Asphalt
UP University of Pretoria
US University of Stellenbosch

VCA Voids in Coarse Aggregate
VFB Voids Filled with Binder
VIM Voids In the total Mix

VMA Voids in the Mineral Aggregate

VOC Vehicle Operating Costs

VPD Vehicles Per Day

WAM Warm Mix Asphalt

WCPA Western Cape Provincial Government

WLSP Wholesale List Selling Price WOAP World of Asphalt Pavements