Niche tiles

PREMIUM REAL METAL RESIN MURALS

PRODUCTS : PREMIUM REAL METAL RESIN MURALS 12"x18"

ASTM (AMERICAN SOCIETY for TESTING and MATERIALS) SPECIFICATION and METHODS

TECHNICAL CHARACTERISTICSSPECIFICATION SUMMARY ASTM STANDARTSASTM TEST METHODNumber METHODNumber ASTM TEST RESULTSAbrasion ResistanceClass 0 - Class VC1027Class 0Surface ResistivityN/AN/AN/ANon ConductiveScratch ResistanceMOHS 1-10MOHS Scale5Breaking StrengthA137.1 ANSI 90 lbs <C648140 lbsFrost ResistanceClass A - Class EC650Class BBond StrengthA137.1 ANSIC482155Polymer Mixed)50 PSI <C63730.5%to 3.0%Water Absorption2.0%to 5.0%C3730.5%to 3.0%Surface BurningN/AE84-95BClass AStain ResistanceClass A - Class EC502< 0.594%Facial DimensionsA137.1 ANSI 0.6% <C502< 0.594%Stain ResistanceClass A - Class EC1378Class AStain ResistanceClass A - Class EC1378Class AStain ResistanceA137.1 ANSI 0.6% <C502< 0.594%Astain ResistanceClass A - Class EC1378Class AStain ResistanceClass A - Class EC1028Avarage < 3%DC0F-Dynamic CoefficientAs ReportedDC0F AcuTest*0.42of Friction (Wet Areas Only)SCOF-Static CoefficientAs ReportedC1028Passof Friction (Wet)As ReportedC1028N/A (Floor Tile Only)of Friction (Wet)As ReportedC1028N/A (Floor Tile Only)<				
Surface ResistivityN/AN/AN/ANon ConductiveScratch ResistanceMOHS 1-10MOHS Scale5Breaking StrengthA137.1 ANSI 90 lbs <	CHARACTERISTICS	SUMMARY		ASTM TEST
Scratch ResistanceMOHS 1–10MOHS Scale5Breaking StrengthA137.1 ANSI 90 lbs <	Abrasion Resistance	Class 0 – Class V	C1027	Class 0
Breaking StrengthA137.1 ANSI 90 lbs <C648140 lbsFrost ResistanceAs ReportedC1026Not ResistantChemical ResistanceClass A - Class EC650Class BBond StrengthA137.1 ANSIC482155Bond StrengthA137.1 ANSIC482155(Portland Cement with Polymer Mixed)50 PSI \leq 0.5%to 3.0%Water Absorption2.0%to 5.0%C3730.5%to 3.0%Surface BurningN/AE84-95BClass BStain ResistanceClass A - Class EC1026 $< 0.594\%$ Wedging TestA137.1 ANSI 0.6% \leq C502 $< 0.594\%$ Facial DimensionsA137.1 ANSIC499Range - Max $< 0.59\%$ Avarage $< 3\%$ DCOF-Dynamic Coefficient of Friction (Dry)As ReportedDCOF AcuTest ² 0.42SCOF-Static Coefficient of Friction (Dry)As ReportedC1028PassSCOF-Static Coefficient of Friction (Dry)As ReportedC1028N/A (Floor Tile Only)	Surface Resistivity	N/A	N/A	Non Conductive
Frost ResistanceAs ReportedC1026Not ResistantChemical ResistanceClass A - Class EC650Class BBond StrengthA137.1 ANSIC482155(Portland Cement with Polymer Mixed)50 PSI ≼C482155Water Absorption2.0%to 5.0%C3730.5%to 3.0%Surface BurningN/AE84-95BClass BStain ResistanceClass A - Class EC1378Class AWedging TestA137.1 ANSI 0.6% ≤C502≤ 0.594%Facial DimensionsA137.1 ANSIC499Range - Max ≤ 0.59% Avarage ≤ 3%DC0F-Dynamic Coefficient of Friction (Wet Areas Only)As ReportedDC0F AcuTest²0.42SCOF-Static Coefficient of Friction (Dry)As ReportedC1028PassSCOF-Static Coefficient of Friction (Dry)As ReportedC1028N/A (Floor Tile Only)	Scratch Resistance	MOHS 1-10	MOHS Scale	5
Chemical ResistanceClass A - Class EC650Class BBond StrengthA137.1 ANSIC482155(Portland Cement with Polymer Mixed)50 PSI <	Breaking Strength	A137.1 ANSI 90 lbs \leqslant	C648	140 lbs
Bond Strength (Portland Cement with Polymer Mixed)A137.1 ANSI 50 PSI ≤C482155Water Absorption2.0%to 5.0%C3730.5%to 3.0%Surface BurningN/AE84-95BClass BStain ResistanceClass A - Class EC1378Class AWedging TestA137.1 ANSI 0.6% ≤C502≤ 0.594%Facial DimensionsA137.1 ANSIC499Range - Max ≤ 0.59% Avarage ≤ 3%DC0F-Dynamic Coefficient of Friction (Wet Areas Only)As ReportedDC0F AcuTest²0.42SC0F-Static Coefficient of Friction (Dry)As ReportedC1028N/A (Floor Tile Only)	Frost Resistance	As Reported	C1026	Not Resistant
(Portland Cement with Polymer Mixed)50 PSI ≤NASolutionWater Absorption2.0%to 5.0%C3730.5%to 3.0%Surface BurningN/AE84–95BClass BStain ResistanceClass A - Class EC1378Class AWedging TestA137.1 ANSI 0.6% ≤C502≤ 0.594%Facial DimensionsA137.1 ANSIC499Range - Max ≤ 0.59% Avarage ≤ 3%DCOF-Dynamic Coefficient of Friction (Wet Areas Only)As ReportedDCOF AcuTest²0.42SCOF-Static Coefficient of Friction (Dry)As ReportedC1028PassSCOF-Static Coefficient of Friction (Dry)As ReportedC1028N/A (Floor Tile Only)	Chemical Resistance	Class A – Class E	C650	Class B
Polymer Mixed)Mater Absorption2.0%to 5.0%C3730.5%to 3.0%Water Absorption2.0%to 5.0%C3730.5%to 3.0%Surface BurningN/AE84–95BClass BStain ResistanceClass A – Class EC1378Class AWedging TestA137.1 ANSI 0.6% <	Bond Strength	A137.1 ANSI	C482	155
Water Absorption2.0%to 5.0%C3730.5%to 3.0%Surface BurningN/AE84-95BClass BStain ResistanceClass A - Class EC1378Class AWedging TestA137.1 ANSI 0.6% <	(Portland Cement with	50 PSI ≼		
Surface BurningN/AE84–95BClass BStain ResistanceClass A - Class EC1378Class AWedging TestA137.1 ANSI 0.6% <	Polymer Mixed)			
Stain ResistanceClass A - Class EC1378Class AWedging TestA137.1 ANSI 0.6% ≤C502≤ 0.594%Facial DimensionsA137.1 ANSIC499Range - Max ≤ 0.59% Avarage ≤ 3%DCOF-Dynamic Coefficient of Friction (Wet Areas Only)As ReportedDCOF AcuTest²0.42SCOF-Static Coefficient of Friction (Dry)As ReportedC1028PassSCOF-Static Coefficient of Friction (Dry)As ReportedC1028N/A (Floor Tile Only)	Water Absorption	2.0%to 5.0%	C373	0.5%to 3.0%
Wedging TestA137.1 ANSI 0.6% ≤C502≤ 0.594%Facial DimensionsA137.1 ANSIC499Range - Max ≤ 0.59% Avarage ≤ 3%DCOF-Dynamic Coefficient of Friction (Wet Areas Only)As ReportedDCOF AcuTest 20.42SCOF-Static Coefficient of Friction (Dry)As ReportedC1028PassSCOF-Static Coefficient of Friction (Dry)As ReportedC1028N/A (Floor Tile Only)	Surface Burning	N/A	E84-95B	Class B
Facial DimensionsA137.1 ANSIC499Range - Max < 0.59% Avarage < 3%DCOF-Dynamic Coefficient of Friction (Wet Areas Only)As ReportedDCOF AcuTest 20.42SCOF-Static Coefficient of Friction (Dry)As ReportedC1028PassSCOF-Static Coefficient of Friction (Dry)As ReportedC1028N/A (Floor Tile Only)	Stain Resistance	Class A – Class E	C1378	Class A
DCOF-Dynamic Coefficient of Friction (Wet Areas Only)As ReportedDCOF AcuTest²0.42SCOF-Static Coefficient of Friction (Dry)As ReportedC1028PassSCOF-Static Coefficient of Friction (Dry)As ReportedC1028N/A (Floor Tile Only)	Wedging Test	A137.1 ANSI 0.6% ≼	C502	≼ 0.594%
DCOF-Dynamic Coefficient of Friction (Wet Areas Only)As ReportedDCOF AcuTest 20.42SCOF-Static Coefficient of Friction (Dry)As ReportedC1028PassSCOF-Static Coefficient of Friction (Dry)As ReportedC1028N/A (Floor Tile Only)	Facial Dimensions	A137.1 ANSI	C499	Range – Max \leqslant 0.59%
of Friction (Wet Areas Only)As ReportedC1028PassSCOF-Static Coefficient of Friction (Dry)As ReportedC1028N/A (Floor Tile Only)SCOF-Static CoefficientAs ReportedC1028N/A (Floor Tile Only)				Avarage \leqslant 3%
SCOF-Static Coefficient of Friction (Dry) As Reported C1028 Pass SCOF-Static Coefficient As Reported C1028 N/A (Floor Tile Only)	DCOF-Dynamic Coefficient	As Reported	DCOF AcuTest ²	0.42
of Friction (Dry)C1028N/A (Floor Tile Only)	of Friction (Wet Areas Only)			
SCOF-Static Coefficient As Reported C1028 N/A (Floor Tile Only)	SCOF-Static Coefficient	As Reported	C1028	Pass
	of Friction (Dry)			
of Friction (Wet)	SCOF-Static Coefficient	As Reported	C1028	N/A (Floor Tile Only)
	of Friction (Wet)			

1- Dynamic Coefficient of Friction (DCOF) - Water, oil, grease or other fluids create slippery conditions. When installing floors in areas with exposure to these conditions, a minimum D.C.O.F. volue of 0.42 is required. Additionally, extra caution is required with regards to product selection and proper maintenance. Visit www.tcnatile.com for complete information regarding the DCOF Acutest test method and values.

2- DCOF AcuTest is the industry designation for the test procedure contained in ANSI A137.1 Section 9.6, which has been extensively researched, allows for in-situ field measurements, and is in use at tile manufacturing facilities.
It was so named to distinguish it from other DCOF measurements using different instruments and/or protocols.

Document Number : QAD2016-22 REPORT DATE:05/04/2016

Tested Product Thickness : Between 2/5" to 1 1/2" (Relief Included) Installed and Used in Wet Areas